

Seq. No.	37466	Seq. ID	OJ990818_06.9C10.C5
Gene No.	76868	Strand	-
Start	2410	End	2956
Name	OJ990818_06.9C10.C5.o2.gs	Method	GENSCAN
Start	2410	End	2802
GI	none	Score	.7
Exons	2410..2568, 2761..2802		

Seq. No.	37466	Seq. ID	OJ990818_06.9C10.C5
Gene No.	76868	Strand	-
Start	2410	End	2956
Name	OJ990818_06.9C10.C5.o1.np	Method	AAT/NAP
Start	2413	End	2956
GI	6721559	Score	509
Exons	2413..2536, 2568..2956		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37467	Seq. ID	OJ990818_06.9C10.C6
Gene No.	76869	Strand	-
Start	21	End	480
Name	OJ990818_06.9C10.C6.o1.np	Method	AAT/NAP
Start	21	End	480
GI	6721560	Score	174
Exons	21..308, 347..480		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815085 dbj BAA90371.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37467	Seq. ID	OJ990818_06.9C10.C6
Gene No.	76870	Strand	-
Start	1116	End	8540
Name	OJ990818_06.9C10.C6.o2.np	Method	AAT/NAP
Start	1116	End	8540
GI	4680183	Score	186
Exons	1116..1205, 1815..1885, 8523..8540		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	37467	Seq. ID	OJ990818_06.9C10.C6
Gene No.	76870	Strand	-
Start	1116	End	8540
Name	OJ990818_06.9C10.C6.o1.ts	Method	TBLASTX:Soybean
Start	7925	End	8175
GI	none	Score	42
Exons	7925..7963, 7930..8175, 8042..8173		

Seq. No.	37467	Seq. ID	OJ990818_06.9C10.C6
Gene No.	76870	Strand	-
Start	1116	End	8540
Name	OJ990818_06.9C10.C6.o3.np	Method	AAT/NAP
Start	7936	End	8540
GI	4115365	Score	257
Exons	7936..8540		
GI Descrip.	(AC005957) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	37467	Seq. ID	OJ990818_06.9C10.C6
Gene No.	76870	Strand	-
Start	1116	End	8540
Name	OJ990818_06.9C10.C6.o1.tw	Method	TBLASTX:Wheat
Start	7951	End	8358
GI	none	Score	67
Exons	7951..8358, 7985..8209		
Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o1.np	Method	AAT/NAP
Start	1	End	1129
GI	4544372	Score	637
Exons	1..180, 241..1129		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o1.ts	Method	TBLASTX:Soybean
Start	85	End	554
GI	none	Score	87
Exons	85..273, 98..229, 274..366, 378..554, 378..554		
Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o2.tw	Method	TBLASTX:Wheat
Start	172	End	569
GI	none	Score	49
Exons	172..273, 375..569, 378..497, 400..552		
Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o1.tm	Method	TBLASTX:Maize
Start	241	End	701
GI	none	Score	69
Exons	241..366, 242..367, 343..552, 378..701, 396..701		
Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o1.gs	Method	GENSCAN
Start	351	End	1023
GI	none	Score	.67
Exons	351..870, 899..1023		
Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o1.tw	Method	TBLASTX:Wheat
Start	570	End	974
GI	none	Score	153



Exons 570..842, 570..899, 637..867, 804..875, 871..921, 878..913, 916..972, 916..972, 939..974

Seq. No.	37468	Seq. ID	OJ990818_06.9C10.C7
Gene No.	76871	Strand	-
Start	1	End	1129
Name	OJ990818_06.9C10.C7.o2.tm	Method	TBLASTX:Maize
Start	702	End	918
GI	none	Score	123
Exons	702..899, 703..816, 720..863, 871..918		

Seq. No.	37469	Seq. ID	OJ990818_06.9C10.C8
Gene No.	76872	Strand	-
Start	493	End	1980
Name	OJ990818_06.9C10.C8.o1.gs	Method	GENSCAN
Start	493	End	1980
GI	none	Score	.6
Exons	493..590, 863..983, 1429..1560, 1573..1980		

Seq. No.	37470	Seq. ID	OJ990818_06.9C10.C10
Gene No.	76873	Strand	+
Start	1	End	462
Name	OJ990818_06.9C10.C10.o1.np	Method	AAT/NAP
Start	1	End	462
GI	1717755	Score	147
Exons	1..63, 284..462		
GI Descrip.	TROPINONE REDUCTASE HOMOLOG (P29X) gi 539028 pir  C48674 tropinone reductase homolog - jimsonweed gi 424158 (L20475) 29kDa protein; high homology to aa sequence of tropinone reductases [Datura stramonium]		

Seq. No.	37470	Seq. ID	OJ990818_06.9C10.C10
Gene No.	76873	Strand	+
Start	1	End	462
Name	OJ990818_06.9C10.C10.o1.gs	Method	GENSCAN
Start	259	End	456
GI	none	Score	.99
Exons	259..456		

Seq. No.	37470	Seq. ID	OJ990818_06.9C10.C10
Gene No.	76873	Strand	+
Start	1	End	462
Name	OJ990818_06.9C10.C10.o1.tw	Method	TBLASTX:Wheat
Start	300	End	453
GI	none	Score	179
Exons	300..446, 301..453		

Seq. No.	37470	Seq. ID	OJ990818_06.9C10.C10
Gene No.	76873	Strand	+
Start	1	End	462
Name	OJ990818_06.9C10.C10.o1.tm	Method	TBLASTX:Maize
Start	307	End	453
GI	none	Score	187
Exons	307..453, 315..446		

Seq. No.	37470	Seq. ID	OJ990818_06.9C10.C10
Gene No.	76873	Strand	+

Start	1	End	462
Name	OJ990818_06.9C10.C10.o1.ts	Method	TBLASTX:Soybean
Start	307	End	453
GI	none	Score	187
Exons	307..453, 315..446		
Seq. No.	37471	Seq. ID	OJ990818_06.9C10.C11
Gene No.	76874	Strand	-
Start	437	End	1064
Name	OJ990818_06.9C10.C11.o1.gs	Method	GENSCAN
Start	437	End	1064
GI	none	Score	.81
Exons	437..520, 909..1064		
Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76875	Strand	-
Start	10	End	867
Name	OJ990818_06.9C10.C12.o1.gs	Method	GENSCAN
Start	10	End	867
GI	none	Score	.98
Exons	10..151, 229..421, 680..867		
Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o2.gs	Method	GENSCAN
Start	1023	End	3935
GI	none	Score	.9
Exons	1023..1805, 1881..1980, 2076..2387, 2465..3315, 3469..3610, 3793..3935		
Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o1.np	Method	AAT/NAP
Start	2255	End	4010
GI	5911167	Score	1201
Exons	2255..2383, 2461..4010		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		
Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o1.tm	Method	TBLASTX:Maize
Start	2440	End	2907
GI	none	Score	95
Exons	2440..2607, 2446..2907, 2465..2776		
Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o1.tw	Method	TBLASTX:Wheat
Start	2446	End	2826
GI	none	Score	103
Exons	2446..2826, 2531..2785		
Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12

Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o1.ts	Method	TBLASTX:Soybean
Start	2470	End	2877
GI	none	Score	103
Exons	2470..2700, 2471..2602, 2704..2877, 2705..2872		

Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o3.tm	Method	TBLASTX:Maize
Start	2935	End	3150
GI	none	Score	81
Exons	2935..3138, 3041..3139, 3046..3150		

Seq. No.	37472	Seq. ID	OJ990818_06.9C10.C12
Gene No.	76876	Strand	-
Start	1023	End	4010
Name	OJ990818_06.9C10.C12.o2.tm	Method	TBLASTX:Maize
Start	3355	End	3785
GI	none	Score	98
Exons	3355..3531, 3362..3532, 3562..3600, 3594..3668, 3608..3784, 3642..3785		

Seq. No.	37473	Seq. ID	OJ990818_06.9C10.C13
Gene No.	76877	Strand	+
Start	1092	End	5594
Name	OJ990818_06.9C10.C13.o1.gs	Method	GENSCAN
Start	1092	End	5594
GI	none	Score	.77
Exons	1092..1220, 4235..4339, 4875..5594		

Seq. No.	37473	Seq. ID	OJ990818_06.9C10.C13
Gene No.	76878	Strand	+
Start	10592	End	16304
Name	OJ990818_06.9C10.C13.o3.np	Method	AAT/NAP
Start	10410	End	16304
GI	4378066	Score	1009
Exons	10410..10467, 13841..16304		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	37473	Seq. ID	OJ990818_06.9C10.C13
Gene No.	76878	Strand	+
Start	10592	End	16304
Name	OJ990818_06.9C10.C13.o3.gs	Method	GENSCAN
Start	10592	End	15918
GI	none	Score	.6
Exons	10592..11009, 11063..11152, 11276..11460, 11737..12528, 12831..13189, 13327..13603, 13699..14772, 14934..15387, 15416..15918		

Seq. No.	37473	Seq. ID	OJ990818_06.9C10.C13
Gene No.	76878	Strand	+
Start	10592	End	16304
Name	OJ990818_06.9C10.C13.o2.np	Method	AAT/NAP

Start 13903  
 GI 4206306  
 Exons 13903..16304  
 GI Descrip. (AF049110) prpol [Zea mays]

End 16304  
 Score 966

Seq. No. 37473  
 Gene No. 76878  
 Start 10592  
 Name OJ990818\_06.9C10.C13.o4.np  
 Start 15898  
 GI 629693  
 Exons 15898..16304  
 GI Descrip. probable integrase - common tobacco (fragment)  
 gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]

Seq. ID OJ990818\_06.9C10.C13  
 Strand +  
 End 16304  
 Method AAT/NAP  
 End 16304  
 Score 192

Seq. No. 37473  
 Gene No. 76879  
 Start 1  
 Name OJ990818\_06.9C10.C13.o1.np  
 Start 1  
 GI 2209031  
 Exons 1..240  
 GI Descrip. (AB001569) ORF of 1.56 kb [Daucus carota]

Seq. ID OJ990818\_06.9C10.C13  
 Strand -  
 End 240  
 Method AAT/NAP  
 End 240  
 Score 159

Seq. No. 37473  
 Gene No. 76880  
 Start 7581  
 Name OJ990818\_06.9C10.C13.o1.gp  
 Start 7581  
 GI 2311364  
 Exons 7581..7778

Seq. ID OJ990818\_06.9C10.C13  
 Strand -  
 End 7778  
 Method AAT/GAP  
 End 7778  
 Score 363

Seq. No. 37473  
 Gene No. 76881  
 Start 13969  
 Name OJ990818\_06.9C10.C13.o3.ts  
 Start 13969  
 GI none  
 Exons 13969..14193, 14200..14334

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15020  
 Method TBLASTX:Soybean  
 End 14334  
 Score 133

Seq. No. 37473  
 Gene No. 76881  
 Start 13969  
 Name OJ990818\_06.9C10.C13.o1.tw  
 Start 14131  
 GI none  
 Exons 14131..14187, 14136..14177, 14182..14535, 14190..14468, 14191..14535

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15020  
 Method TBLASTX:Wheat  
 End 14535  
 Score 77

Seq. No. 37473  
 Gene No. 76881  
 Start 13969  
 Name OJ990818\_06.9C10.C13.o2.tm  
 Start 14185  
 GI none  
 Exons 14185..14403, 14190..14402

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15020  
 Method TBLASTX:Maize  
 End 14403  
 Score 276

Seq. No. 37473  
 Gene No. 76881  
 Start 13969  
 Name OJ990818\_06.9C10.C13.o1.tm  
 Start 14404  
 GI none  
 Exons 14404..14862, 14404..14799

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15020  
 Method TBLASTX:Maize  
 End 14862  
 Score 536

Seq. No. 37473  
 Gene No. 76881  
 Start 13969  
 Name OJ990818\_06.9C10.C13.o2.tw  
 Start 14536  
 GI none  
 Exons 14536..14856, 14553..14663

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15020  
 Method TBLASTX:Wheat  
 End 14856  
 Score 197

Seq. No. 37473  
 Gene No. 76881  
 Start 13969  
 Name OJ990818\_06.9C10.C13.o2.ts  
 Start 14551  
 GI none

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15020  
 Method TBLASTX:Soybean  
 End 15020  
 Score 216

Exons 14551..14832, 14589..14663, 14871..15020, 14876..14983

Seq. No. 37473  
 Gene No. 76882  
 Start 15171  
 Name OJ990818\_06.9C10.C13.o1.ts  
 Start 15171  
 GI none  
 Exons 15171..15308, 15173..15304, 15329..15415, 15330..15422, 15427..15579

Seq. ID OJ990818\_06.9C10.C13  
 Strand  
 End 15579  
 Method TBLASTX:Soybean  
 End 15579  
 Score 148

Seq. No. 37474  
 Gene No. 76883  
 Start 266  
 Name OJ990818\_06.9C10.C14.o1.gs  
 Start 266  
 GI none  
 Exons 266..367

Seq. ID OJ990818\_06.9C10.C14  
 Strand +  
 End 367  
 Method GENSCAN  
 End 367  
 Score .62

Seq. No. 37475  
 Gene No. 76884  
 Start 1  
 Name OJ990818\_06.9C10.C16.o1.np  
 Start 1  
 GI 4680179  
 Exons 1..1929

Seq. ID OJ990818\_06.9C10.C16  
 Strand +  
 End 3503  
 Method AAT/NAP  
 End 1929  
 Score 2737

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 37475  
 Gene No. 76884  
 Start 1  
 Name OJ990818\_06.9C10.C16.o1.gs  
 Start 74  
 GI none  
 Exons 74..1392, 1438..1915, 2302..2354, 2639..2839, 3402..3503

Seq. ID OJ990818\_06.9C10.C16  
 Strand +  
 End 3503  
 Method GENSCAN  
 End 3503  
 Score .55

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76885	Strand	+
Start	3916	End	4297
Name	OJ990818_06.9C10.C16.o1.gp	Method	AAT/GAP
Start	3916	End	4297
GI	uC-osflcyp033a04b1	Score	671
Exons	3916..4297		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o2.np	Method	AAT/NAP
Start	1	End	5481
GI	5852180	Score	484
Exons	1..52, 2580..2994, 3046..3166, 4148..4204, 5125..5246, 5413..5481		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o2.tm	Method	TBLASTX:Maize
Start	1	End	351
GI	none	Score	461
Exons	1..351, 3..347		

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o3.tw	Method	TBLASTX:Wheat
Start	3	End	348
GI	none	Score	511
Exons	3..347, 4..348		

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o2.tw	Method	TBLASTX:Wheat
Start	351	End	918
GI	none	Score	639
Exons	351..917, 382..918		

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o1.ts	Method	TBLASTX:Soybean
Start	711	End	966
GI	none	Score	285
Exons	711..965, 712..966		

Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o3.tm	Method	TBLASTX:Maize

Start	764	End	1056
GI	none	Score	86
Exons	764..916, 765..1052, 766..1056		
Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o1.tw	Method	TBLASTX:Wheat
Start	925	End	1551
GI	none	Score	675
Exons	925..1551, 981..1445, 1297..1548		
Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o1.tm	Method	TBLASTX:Maize
Start	1105	End	1704
GI	none	Score	235
Exons	1105..1266, 1113..1259, 1264..1704, 1266..1448, 1426..1689		
Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o4.tw	Method	TBLASTX:Wheat
Start	1551	End	1884
GI	none	Score	369
Exons	1551..1820, 1552..1884, 1555..1863		
Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o4.tm	Method	TBLASTX:Maize
Start	1708	End	1905
GI	none	Score	183
Exons	1708..1905		
Seq. No.	37475	Seq. ID	OJ990818_06.9C10.C16
Gene No.	76886	Strand	-
Start	1	End	5481
Name	OJ990818_06.9C10.C16.o2.gs	Method	GENSCAN
Start	5145	End	5206
GI	none	Score	.46
Exons	5145..5206		
Seq. No.	37476	Seq. ID	OJ990818_06.9C10.C17
Gene No.	76887	Strand	+
Start	2712	End	5941
Name	OJ990818_06.9C10.C17.o2.gs	Method	GENSCAN
Start	2712	End	5941
GI	none	Score	.75
Exons	2712..2818, 3151..3671, 3715..4293, 4345..4370, 4449..4874, 4924..4998, 5096..5179, 5258..5941		
Seq. No.	37476	Seq. ID	OJ990818_06.9C10.C17
Gene No.	76888	Strand	-
Start	260	End	754
Name	OJ990818_06.9C10.C17.o1.gs	Method	GENSCAN

Start 260  
GI none  
Exons 260..754

End 754  
Score .78

Seq. No. 37476      Seq. ID OJ990818\_06.9C10.C17  
Gene No. 76889      Strand -  
Start 6264      End 6731  
Name OJ990818\_06.9C10.C17.o1.ts      Method TBLASTX:Soybean  
Start 596      End 6554  
GI none      Score 74  
Exons 596..697, 6304..6342, 6309..6554, 6373..6540, 6387..6554

Seq. No. 37476      Seq. ID OJ990818\_06.9C10.C17  
Gene No. 76889      Strand -  
Start 6264      End 6731  
Name OJ990818\_06.9C10.C17.o1.np      Method AAT/NAP  
Start 6264      End 6731  
GI 629693      Score 158  
Exons 6264..6731  
GI Descrip. probable integrase - common tobacco (fragment)  
gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]

Seq. No. 37476      Seq. ID OJ990818\_06.9C10.C17  
Gene No. 76889      Strand -  
Start 6264      End 6731  
Name OJ990818\_06.9C10.C17.o1.tw      Method TBLASTX:Wheat  
Start 6330      End 6731  
GI none      Score 86  
Exons 6330..6731, 6364..6597

Seq. No. 37477      Seq. ID OJ990818\_06.9C10.C18  
Gene No. 76890      Strand +  
Start 86      End 1558  
Name OJ990818\_06.9C10.C18.o1.gs      Method GENSCAN  
Start 86      End 1558  
GI none      Score .92  
Exons 86..675, 951..1227, 1303..1377, 1475..1558

Seq. No. 37478      Seq. ID OJ990818\_06.9C10.C19  
Gene No. 76891      Strand +  
Start 5851      End 6463  
Name OJ990818\_06.9C10.C19.o2.gs      Method GENSCAN  
Start 5851      End 6463  
GI none      Score .98  
Exons 5851..5911, 6357..6463

Seq. No. 37478      Seq. ID OJ990818\_06.9C10.C19  
Gene No. 76892      Strand +  
Start 6833      End 11427  
Name OJ990818\_06.9C10.C19.o3.gs      Method GENSCAN  
Start 6833      End 11427  
GI none      Score .74  
Exons 6833..7047, 7103..7827, 8179..8260, 8796..9032, 9138..9244,  
9344..9491, 9550..9725, 9755..9923, 10031..10108, 11074..11127,  
11226..11427

Seq. No. 37478      Seq. ID OJ990818\_06.9C10.C19



Gene No.	76893	Strand	+
Start	12363	End	12623
Name	OJ990818_06.9C10.C19.o4.gs	Method	GENSCAN
Start	12363	End	12623
GI	none	Score	.98
Exons	12363..12623		
Seq. No.	37478	Seq. ID	OJ990818_06.9C10.C19
Gene No.	76894	Strand	-
Start	1532	End	1710
Name	OJ990818_06.9C10.C19.o1.np	Method	AAT/NAP
Start	1532	End	1710
GI	3980405	Score	112
Exons	1532..1710		
GI Descrip.	(AC004561) putative tropinone reductase [Arabidopsis thaliana]		
Seq. No.	37478	Seq. ID	OJ990818_06.9C10.C19
Gene No.	76895	Strand	-
Start	5510	End	5891
Name	OJ990818_06.9C10.C19.o1.gp	Method	AAT/GAP
Start	5510	End	5891
GI	uC-osflcyp033a04b1	Score	659
Exons	5510..5891		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	37478	Seq. ID	OJ990818_06.9C10.C19
Gene No.	76896	Strand	-
Start	6356	End	8081
Name	OJ990818_06.9C10.C19.o2.np	Method	AAT/NAP
Start	6356	End	8081
GI	6907087	Score	968
Exons	6356..6457, 7009..7668, 7713..8081		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	37478	Seq. ID	OJ990818_06.9C10.C19
Gene No.	76897	Strand	-
Start	10976	End	11357
Name	OJ990818_06.9C10.C19.o2.gp	Method	AAT/GAP
Start	10976	End	11357
GI	uC-osflcyp033a04b1	Score	675
Exons	10976..11357		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	37478	Seq. ID	OJ990818_06.9C10.C19
Gene No.	76898	Strand	-
Start	13321	End	15361
Name	OJ990818_06.9C10.C19.o5.gs	Method	GENSCAN
Start	13321	End	15361
GI	none	Score	.9
Exons	13321..13944, 14023..14133, 14416..14757, 15149..15361		
Seq. No.	37479	Seq. ID	OJ990818_06.9C10.C20
Gene No.	76899	Strand	+

Start	1	End	164
Name	OJ990818_06.9C10.C20.o1.np	Method	AAT/NAP
Start	1	End	161
GI	4680186	Score	263
Exons	1..161		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37479	Seq. ID	OJ990818_06.9C10.C20
Gene No.	76899	Strand	+
Start	1	End	164
Name	OJ990818_06.9C10.C20.o1.gs	Method	GENSCAN
Start	52	End	164
GI	none	Score	.7
Exons	52..164		

Seq. No.	37479	Seq. ID	OJ990818_06.9C10.C20
Gene No.	76900	Strand	-
Start	1	End	94
Name	OJ990818_06.9C10.C20.o1.gp	Method	AAT/GAP
Start	1	End	94
GI	uC-osflcyp033a04b1	Score	180
Exons	1..94		

GI Descrip. '6016845/dbj|AP000570.1|AP000570.3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	37479	Seq. ID	OJ990818_06.9C10.C20
Gene No.	76901	Strand	-
Start	805	End	939
Name	OJ990818_06.9C10.C20.o2.gs	Method	GENSCAN
Start	805	End	939
GI	none	Score	.61
Exons	805..808, 833..939		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76902	Strand	+
Start	875	End	6448
Name	OJ990818_06.9C10.C21.o1.np	Method	AAT/NAP
Start	875	End	4126
GI	4680179	Score	3645
Exons	875..1549, 1583..4126		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76902	Strand	+
Start	875	End	6448
Name	OJ990818_06.9C10.C21.o2.np	Method	AAT/NAP
Start	2398	End	6448
GI	6063554	Score	466
Exons	2398..2679, 4636..4922, 5040..5270, 5608..5635, 6274..6448		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76903	Strand	-
Start	4976	End	7154
Name	OJ990818_06.9C10.C21.o1.gp	Method	AAT/GAP

Start	4926	End	5272
GI	101153_1.R1084	Score	464
Exons	4926..5272		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76903	Strand	-
Start	4976	End	7154
Name	OJ990818_06.9C10.C21.o2.gs	Method	GENSCAN
Start	4976	End	7154
GI	none	Score	.91
Exons	4976..5361, 6179..6303, 6506..6608, 7043..7154		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76903	Strand	-
Start	4976	End	7154
Name	OJ990818_06.9C10.C21.o2.gp	Method	AAT/GAP
Start	6817	End	7037
GI	61605_3.R1084	Score	336
Exons	6817..7037		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o5.tw	Method	TBLASTX:Wheat
Start	950	End	1300
GI	none	Score	225
Exons	950..1144, 951..1202, 1178..1300		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o5.tm	Method	TBLASTX:Maize
Start	1604	End	1929
GI	none	Score	184
Exons	1604..1927, 1660..1728, 1837..1929		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o6.tw	Method	TBLASTX:Wheat
Start	1609	End	1972
GI	none	Score	159
Exons	1609..1731, 1610..1819, 1861..1959, 1865..1972		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o3.tw	Method	TBLASTX:Wheat
Start	2146	End	2629
GI	none	Score	52
Exons	2146..2586, 2147..2197, 2252..2629		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
----------	-------	---------	----------------------

Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o4.tm	Method	TBLASTX:Maize
Start	2158	End	2448
GI	none	Score	266
Exons	2158..2448, 2159..2446		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o2.tm	Method	TBLASTX:Maize
Start	2516	End	3016
GI	none	Score	169
Exons	2516..2695, 2524..2640, 2702..3016, 2842..2895, 2864..2974		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o1.ts	Method	TBLASTX:Soybean
Start	2570	End	2965
GI	none	Score	57
Exons	2570..2602, 2572..2601, 2606..2965, 2608..2640, 2674..2964		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o4.tw	Method	TBLASTX:Wheat
Start	2678	End	2980
GI	none	Score	364
Exons	2678..2980, 2680..2964		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o2.tw	Method	TBLASTX:Wheat
Start	2981	End	3391
GI	none	Score	543
Exons	2981..3391, 3013..3390, 3044..3391		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o1.tm	Method	TBLASTX:Maize
Start	3052	End	3415
GI	none	Score	456
Exons	3052..3402, 3053..3406, 3053..3415		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o1.tw	Method	TBLASTX:Wheat
Start	3395	End	3973
GI	none	Score	665
Exons	3395..3973, 3406..3972		

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-

Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o2.ts	Method	TBLASTX:Soybean
Start	3761	End	4021
GI	none	Score	287
Exons	3761..4021, 3766..4020		

  

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o3.tm	Method	TBLASTX:Maize
Start	3819	End	4111
GI	none	Score	87
Exons	3819..3971, 3820..4107, 3821..4111		

  

Seq. No.	37480	Seq. ID	OJ990818_06.9C10.C21
Gene No.	76904	Strand	-
Start	8051	End	8156
Name	OJ990818_06.9C10.C21.o3.np	Method	AAT/NAP
Start	8051	End	8156
GI	4680186	Score	163
Exons	8051..8156		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37481	Seq. ID	OJ990818_06.9C10.C22
Gene No.	76905	Strand	-
Start	942	End	2886
Name	OJ990818_06.9C10.C22.o1.ts	Method	TBLASTX:Soybean
Start	928	End	1181
GI	none	Score	152
Exons	928..1179, 936..1181, 942..1181		

  

Seq. No.	37481	Seq. ID	OJ990818_06.9C10.C22
Gene No.	76905	Strand	-
Start	942	End	2886
Name	OJ990818_06.9C10.C22.o1.np	Method	AAT/NAP
Start	942	End	2886
GI	4544372	Score	525
Exons	942..2143, 2840..2886		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	37481	Seq. ID	OJ990818_06.9C10.C22
Gene No.	76905	Strand	-
Start	942	End	2886
Name	OJ990818_06.9C10.C22.o1.tw	Method	TBLASTX:Wheat
Start	957	End	1364
GI	none	Score	77
Exons	957..1364, 991..1164		

Seq. No.	37481	Seq. ID	OJ990818_06.9C10.C22
Gene No.	76905	Strand	-
Start	942	End	2886
Name	OJ990818_06.9C10.C22.o2.tw	Method	TBLASTX:Wheat
Start	1401	End	1766
GI	none	Score	50
Exons	1401..1766, 1596..1736		

Seq. No.	37482	Seq. ID	OJ990818_06.9C10.C23
Gene No.	76906	Strand	+
Start	1	End	448
Name	OJ990818_06.9C10.C23.o1.np	Method	AAT/NAP
Start	1	End	448
GI	4544372	Score	81
Exons	1..354, 407..448		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	37482	Seq. ID	OJ990818_06.9C10.C23
Gene No.	76906	Strand	+
Start	1	End	448
Name	OJ990818_06.9C10.C23.o1.ts	Method	TBLASTX:Soybean
Start	157	End	339
GI	none	Score	192
Exons	157..339, 159..290		

Seq. No.	37483	Seq. ID	OJ990818_06.9C10.C24
Gene No.	76907	Strand	-
Start	290	End	796
Name	OJ990818_06.9C10.C24.o1.gs	Method	GENSCAN
Start	290	End	796
GI	none	Score	.59
Exons	290..449, 605..796		

Seq. No.	37484	Seq. ID	OJ990818_06.9C10.C25
Gene No.	76908	Strand	-
Start	96	End	217
Name	OJ990818_06.9C10.C25.o1.gs	Method	GENSCAN
Start	96	End	217
GI	none	Score	.97
Exons	96..217		

Seq. No.	37485	Seq. ID	OJ990908_08.9C23.C1
Gene No.	76909	Strand	+
Start	58	End	154
Name	OJ990908_08.9C23.C1.o1.gs	Method	GENSCAN
Start	58	End	154
GI	none	Score	.91
Exons	58..154		

Seq. No.	37485	Seq. ID	OJ990908_08.9C23.C1
Gene No.	76910	Strand	-
Start	1	End	350
Name	OJ990908_08.9C23.C1.o1.np	Method	AAT/NAP
Start	1	End	350
GI	6721562	Score	165
Exons	1..350		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	37486	Seq. ID	OJ990908_08.9C23.C2
Gene No.	76911	Strand	+

Start	90	End	458
Name	OJ990908_08.9C23.C2.o1.gp	Method	AAT/GAP
Start	90	End	458
GI	1631634	Score	173
Exons	90..162, 418..458		

Seq. No.	37487	Seq. ID	OJ990908_08.9C23.C3
Gene No.	76912	Strand	+
Start	1	End	460
Name	OJ990908_08.9C23.C3.o1.np	Method	AAT/NAP
Start	1	End	460
GI	2126090	Score	803
Exons	1..460		
GI Descrip.	transposase (insertion sequence IS10) - Escherichia coli gi 455676 bbs 140379 (S67119) transposase [Escherichia coli, LBB84, plasmid pXT107, IS10L/R-1, Peptide PlasmidTransposonInsertionMutant, 402 aa] [Escherichia coli] gi 6634720 gb AAF19728.1 AC012463_2 (AC012463) T2E6.2 [Arabidopsis thaliana]		

Seq. No.	37487	Seq. ID	OJ990908_08.9C23.C3
Gene No.	76912	Strand	+
Start	1	End	460
Name	OJ990908_08.9C23.C3.o1.gs	Method	GENSCAN
Start	38	End	313
GI	none	Score	.47
Exons	38..313		

Seq. No.	37488	Seq. ID	OJ990908_08.9C23.C4
Gene No.	76913	Strand	+
Start	1	End	121
Name	OJ990908_08.9C23.C4.o1.gp	Method	AAT/GAP
Start	1	End	121
GI	none	Score	242
Exons	1..121		

Seq. No.	37488	Seq. ID	OJ990908_08.9C23.C4
Gene No.	76914	Strand	+
Start	78	End	416
Name	OJ990908_08.9C23.C4.o1.gs	Method	GENSCAN
Start	78	End	416
GI	none	Score	.87
Exons	78..416		

Seq. No.	37488	Seq. ID	OJ990908_08.9C23.C4
Gene No.	76915	Strand	+
Start	344	End	456
Name	OJ990908_08.9C23.C4.o2.gp	Method	AAT/GAP
Start	344	End	456
GI	LIB3433-018-Q6-K6-E12	Score	167
Exons	344..456		
GI Descrip.	'1711381/sp P52877 SERC_SPIOL 4.0e-62 PHOSPHOSERINE AMINOTRANSFERASE PRECURSOR (PSAT) >gi_1256204_dbj_BAA12206 (D84061) phosphoserine aminotransferase [Spinacia oleracea]'		

Seq. No.	37489	Seq. ID	OJ990908_08.9C23.C7
Gene No.	76916	Strand	-

Start	1	End	337
Name	OJ990908_08.9C23.C7.o1.gp		Method AAT/GAP
Start	1	End	337
GI	51794_1.R1084	Score	652
Exons	1..337		
GI Descrip.	'4926868/gb AAD32948.1 AC007509_3 1.0e-17 (AC007509) putative phosphoserine aminotransferase precursor [Arabidopsis thaliana]'		

Seq. No.	37489	Seq. ID	OJ990908_08.9C23.C7
Gene No.	76917	Strand	-
Start	371	End	559
Name	OJ990908_08.9C23.C7.o1.gs	Method	GENSCAN
Start	371	End	559
GI	none	Score	.76
Exons	371..471, 502..559		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76918	Strand	+
Start	1636	End	2249
Name	OJ990908_08.9C23.C8.o1.gs	Method	GENSCAN
Start	1636	End	2249
GI	none	Score	.68
Exons	1636..1877, 1896..1992, 2157..2249		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76919	Strand	+
Start	7150	End	13458
Name	OJ990908_08.9C23.C8.o3.gs	Method	GENSCAN
Start	7150	End	11928
GI	none	Score	.59
Exons	7150..7162, 9074..9235, 9740..10023, 10251..10598, 10691..10846, 11023..11106, 11923..11928		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76919	Strand	+
Start	7150	End	13458
Name	OJ990908_08.9C23.C8.o2.np	Method	AAT/NAP
Start	10139	End	13313
GI	6503014	Score	630
Exons	10139..10184, 10282..10391, 10464..10598, 10691..10846, 11023..11106, 11299..11345, 11535..11608, 11864..11922, 12379..12438, 13056..13136, 13263..13313		

GI Descrip.	(AF174429) FH protein interacting protein FIP2 [Arabidopsis thaliana]		
-------------	---	--	--

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76919	Strand	+
Start	7150	End	13458
Name	OJ990908_08.9C23.C8.o1.gp	Method	AAT/GAP
Start	10682	End	11944
GI	1631634	Score	755
Exons	10682..10846, 11023..11106, 11299..11345, 11535..11608, 11864..11944		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76919	Strand	+
Start	7150	End	13458



Name	OJ990908_08.9C23.C8.o2.gp	Method	AAT/GAP
Start	13056	End	13458
GI	LIB3433-056-P1-K1-C3	Score	463
Exons	13056..13136, 13263..13458		
GI Descrip.	'4097572/gb U64917 GMU64917 2.0e-11 Glycine max farnesylated protein GMFP7 mRNA, partial cds'		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76920	Strand	+
Start	15489	End	30087
Name	OJ990908_08.9C23.C8.o5.gs	Method	GENSCAN
Start	15489	End	28361
GI	none	Score	.65
Exons	15489..15559, 15783..15849, 16019..16176, 16733..16967, 17056..17163, 17239..17408, 17837..17970, 18173..18257, 18615..18913, 19066..19178, 19347..19524, 19664..19827, 20980..21056, 21245..21431, 22327..22719, 23327..23482, 24273..24431, 25496..25578, 25716..25761, 26055..26142, 26239..26408, 26547..26660, 26727..26834, 27268..27406, 28228..28361		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76920	Strand	+
Start	15489	End	30087
Name	OJ990908_08.9C23.C8.o4.np	Method	AAT/NAP
Start	22354	End	29904
GI	4585987	Score	925
Exons	22354..22461, 22570..22719, 23327..23482, 24273..24431, 24535..24618, 24770..24849, 24949..24999, 25117..25216, 25496..25578, 25716..25761, 26049..26142, 26239..26412, 28426..28528, 29841..29904		
GI Descrip.	(AC005287) Similar to nucleolar protein [Arabidopsis thaliana]		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76920	Strand	+
Start	15489	End	30087
Name	OJ990908_08.9C23.C8.o3.gp	Method	AAT/GAP
Start	24275	End	25201
GI	LIB3432-051-P1-K1-B3	Score	712
Exons	24275..24431, 24535..24618, 24770..24849, 24949..24969, 25117..25201		
GI Descrip.	'4585987/gb AAD25623.1 AC005287.25 9.0e-53 (AC005287) Similar to nucleolar protein [Arabidopsis thaliana]		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76920	Strand	+
Start	15489	End	30087
Name	OJ990908_08.9C23.C8.o4.gp	Method	AAT/GAP
Start	28764	End	29252
GI	none	Score	974
Exons	28764..29252		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76920	Strand	+
Start	15489	End	30087
Name	OJ990908_08.9C23.C8.o5.np	Method	AAT/NAP
Start	28807	End	30084

GI 3914996 Score 1343  
 Exons 28807..30084  
 GI Descrip. PHOSPHOSERINE AMINOTRANSFERASE, CHLOROPLAST PRECURSOR (PSAT)  
 gi|1665831|dbj|BAA13640| (D88541) phosphoserine aminotransferase  
 [Arabidopsis thaliana] gi|2804260|dbj|BAA24441| (AB010408)  
 phosphoserine aminotransferase [Arabidopsis thaliana]  
 gi|3367581|emb|CAA20033| (AL031135) phosphoserine  
 aminotransferase [Arabidopsis thaliana]

Seq. No. 37490 Seq. ID OJ990908\_08.9C23.C8  
 Gene No. 76920 Strand +  
 Start 15489 End 30087  
 Name OJ990908\_08.9C23.C8.o6.gs Method GENSCAN  
 Start 28807 End 30087  
 GI none Score .98  
 Exons 28807..30087

Seq. No. 37490 Seq. ID OJ990908\_08.9C23.C8  
 Gene No. 76920 Strand +  
 Start 15489 End 30087  
 Name OJ990908\_08.9C23.C8.o5.gp Method AAT/GAP  
 Start 29475 End 29907  
 GI LIB3433-018-Q6-K6-E12 Score 833

Exons 29475..29907  
 GI Descrip. '1711381/sp|P52877|SERC SPIOL 4.0e-62 PHOSPHOSERINE  
 AMINOTRANSFERASE PRECURSOR (PSAT) >gi\_1256204\_dbj\_BAA12206  
 (D84061) phosphoserine aminotransferase [Spinacia oleracea]'

Seq. No. 37490 Seq. ID OJ990908\_08.9C23.C8  
 Gene No. 76921 Strand +  
 Start 30943 End 37903  
 Name OJ990908\_08.9C23.C8.o7.gs Method GENSCAN  
 Start 30943 End 33733  
 GI none Score .71  
 Exons 30943..31011, 32301..32423, 32558..32812, 32824..33030,  
 33130..33442, 33624..33733

Seq. No. 37490 Seq. ID OJ990908\_08.9C23.C8  
 Gene No. 76921 Strand +  
 Start 30943 End 37903  
 Name OJ990908\_08.9C23.C8.o6.np Method AAT/NAP  
 Start 32058 End 34357  
 GI 4587595 Score 350  
 Exons 32058..32423, 32537..33084, 34305..34357  
 GI Descrip. (AC006951) putative GDSL-motif lipase/hydrolase [Arabidopsis  
 thaliana]

Seq. No. 37490 Seq. ID OJ990908\_08.9C23.C8  
 Gene No. 76921 Strand +  
 Start 30943 End 37903  
 Name OJ990908\_08.9C23.C8.o7.np Method AAT/NAP  
 Start 34039 End 37902  
 GI 6630731 Score 1129  
 Exons 34039..34236, 34437..34777, 34889..35116, 35967..36032,  
 36535..36936, 37007..37118, 37675..37760, 37837..37902  
 GI Descrip. (AL132958) RNA helicase-like protein [Arabidopsis thaliana]

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76921	Strand	+
Start	30943	End	37903
Name	OJ990908_08.9C23.C8.o8.gs	Method	GENSCAN
Start	34108	End	37902
GI	none	Score	.91
Exons	34108..34371, 34484..34777, 34889..35116, 36535..36936, 37007..37118, 37675..37760, 37837..37902		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76921	Strand	+
Start	30943	End	37903
Name	OJ990908_08.9C23.C8.o7.gp	Method	AAT/GAP
Start	36876	End	37347
GI	LIB3433-060-P1-K1-H6	Score	260
Exons	36876..36936, 37007..37118, 37327..37347		
GI Descrip.	'1175426/sp Q09747 YB66_SCHPO 7.0e-15 PUTATIVE ATP-DEPENDENT RNA HELICASE C12C2.06 >gi_984214_emb_CAA90819_ (Z54140) probable ATP-dependent RNA helicase [Schizosaccharomyces pombe]'		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76921	Strand	+
Start	30943	End	37903
Name	OJ990908_08.9C23.C8.o8.gp	Method	AAT/GAP
Start	37658	End	37903
GI	LIB3433-060-P1-K1-H6	Score	245
Exons	37658..37760, 37837..37903		
GI Descrip.	'1175426/sp Q09747 YB66_SCHPO 7.0e-15 PUTATIVE ATP-DEPENDENT RNA HELICASE C12C2.06 >gi_984214_emb_CAA90819_ (Z54140) probable ATP-dependent RNA helicase [Schizosaccharomyces pombe]'		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76922	Strand	+
Start	49445	End	50773
Name	OJ990908_08.9C23.C8.o9.np	Method	AAT/NAP
Start	49445	End	50773
GI	3080386	Score	306
Exons	49445..49600, 50226..50773		
GI Descrip.	(AL022603) hypothetical protein [Arabidopsis thaliana] gi 3402761 emb CAA20207.1  (AL031187) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76922	Strand	+
Start	49445	End	50773
Name	OJ990908_08.9C23.C8.o12.gp	Method	AAT/GAP
Start	49895	End	50309
GI	4878165	Score	579
Exons	49895..50063, 50141..50309		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76923	Strand	-
Start	1	End	3053
Name	OJ990908_08.9C23.C8.o1.np	Method	AAT/NAP
Start	1	End	3053
GI	4972067	Score	475
Exons	1..391, 462..645, 734..889, 2624..2835, 2895..3053		

GI Descrip. (AL078467) putative protei [Arabidopsis thaliana]

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76924	Strand	-
Start	14047	End	14897
Name	OJ990908_08.9C23.C8.o4.gs	Method	GENSCAN
Start	14047	End	14897
GI	none	Score	.84
Exons	14047..14567, 14608..14779, 14808..14897		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76925	Strand	-
Start	29919	End	30366
Name	OJ990908_08.9C23.C8.o6.gp	Method	AAT/GAP
Start	29919	End	30366
GI	51794_1.R1084	Score	822
Exons	29919..30366		

GI Descrip. '4926868/gb|AAD32948.1|AC007509\_3 1.0e-17 (AC007509) putative phosphoserine aminotransferase precursor [Arabidopsis thaliana]'

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76926	Strand	-
Start	38555	End	41766
Name	OJ990908_08.9C23.C8.o9.gs	Method	GENSCAN
Start	38555	End	41730
GI	none	Score	.92
Exons	38555..38749, 39239..39685, 40717..40836, 41293..41730		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76926	Strand	-
Start	38555	End	41766
Name	OJ990908_08.9C23.C8.o9.gp	Method	AAT/GAP
Start	39416	End	41766
GI	7995_1.R1084	Score	1440
Exons	39416..39685, 41293..41766		
GI Descrip.	'5042413/gb AAD38252.1 AC006193_8 8.0e-43 (AC006193) Hypothetical Protein [Arabidopsis thaliana]'		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o6.tm	Method	TBLASTX:Maize
Start	332	End	882
GI	none	Score	78
Exons	332..388, 465..644, 511..639, 736..882		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o4.tc	Method	TBLASTX:Cress
Start	351	End	892
GI	none	Score	56
Exons	351..404, 353..403, 462..644, 462..647, 463..648, 731..892, 733..891		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-

Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o5.ts	Method	TBLASTX:Soybean
Start	561	End	898
GI	none	Score	125
Exons	561..647, 562..666, 731..898, 733..897		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o7.tm	Method	TBLASTX:Maize
Start	10281	End	10559
GI	none	Score	72
Exons	10281..10373, 10283..10360, 10286..10390, 10287..10391, 10457..10522, 10461..10559, 10461..10535, 10463..10555		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o5.tc	Method	TBLASTX:Cress
Start	10286	End	11106
GI	none	Score	105
Exons	10286..10366, 10287..10373, 10461..10598, 10463..10582, 10723..10863, 10748..10828, 11023..11106		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o7.ts	Method	TBLASTX:Soybean
Start	10286	End	10559
GI	none	Score	130
Exons	10286..10390, 10287..10388, 10461..10559, 10463..10558, 10470..10559		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o10.tm	Method	TBLASTX:Maize
Start	16126	End	16892
GI	none	Score	82
Exons	16126..16185, 16127..16177, 16720..16884, 16726..16848, 16734..16892, 16778..16891		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o9.tm	Method	TBLASTX:Maize
Start	17263	End	17973
GI	none	Score	256
Exons	17263..17409, 17263..17409, 17276..17410, 17825..17971, 17835..17972, 17845..17973, 17847..17972		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o8.ts	Method	TBLASTX:Soybean
Start	17308	End	18171
GI	none	Score	144

Exons 17308..17409, 17849..17968, 17864..17971, 17865..17972,  
17868..17972, 18079..18171, 18084..18164

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o11.ts	Method	TBLASTX:Soybean
Start	18475	End	18759
GI	none	Score	225
Exons	18475..18759, 18522..18629		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o5.tm	Method	TBLASTX:Maize
Start	23359	End	26417
GI	none	Score	128
Exons	23359..23484, 23360..23491, 24267..24434, 24267..24431, 24272..24433, 24529..24618, 24531..24614, 24750..24848, 24752..24853, 24769..24852, 24949..25002, 24950..25000, 25114..25218, 25114..25218, 25483..25581, 25487..25579, 25493..25585, 25711..25755, 26049..26141, 26055..26141, 26056..26142, 26235..26366, 26237..26392, 26238..26417		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o15.ts	Method	TBLASTX:Soybean
Start	24330	End	24817
GI	none	Score	144
Exons	24330..24434, 24332..24433, 24528..24560, 24529..24561, 24568..24618, 24752..24817		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o12.ts	Method	TBLASTX:Soybean
Start	26046	End	26397
GI	none	Score	108
Exons	26046..26141, 26066..26140, 26237..26389, 26238..26393, 26245..26397		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o1.tc	Method	TBLASTX:Cress
Start	28912	End	30093
GI	none	Score	321
Exons	28912..29259, 29016..29282, 29265..29489, 29266..29490, 29481..29909, 29482..29913, 29919..30089, 29920..30090, 29962..30093		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o1.ts	Method	TBLASTX:Soybean
Start	28999	End	29793

GI	none	Score	558
Exons	28999..29490, 28999..29163, 29016..29486, 29432..29488, 29481..29789, 29482..29793		
Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o8.tm	Method	TBLASTX:Maize
Start	29023	End	29223
GI	none	Score	57
Exons	29023..29064, 29026..29064, 29047..29223, 29064..29219		
Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o2.tm	Method	TBLASTX:Maize
Start	29226	End	30260
GI	none	Score	1314
Exons	29226..30095, 29227..30087, 30006..30089, 30201..30260		
Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o4.ts	Method	TBLASTX:Soybean
Start	29794	End	30087
GI	none	Score	152
Exons	29794..29913, 29794..29907, 29796..29921, 29919..30077, 29920..30081, 29962..30087		
Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o3.tc	Method	TBLASTX:Cress
Start	34483	End	36723
GI	none	Score	384
Exons	34483..34770, 34484..34777, 34565..34777, 34886..35125, 34888..34950, 34994..35125, 36532..36723, 36532..36675, 36534..36722		
Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o3.ts	Method	TBLASTX:Soybean
Start	34483	End	34768
GI	none	Score	378
Exons	34483..34767, 34484..34768		
Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o3.tm	Method	TBLASTX:Maize
Start	34559	End	37913
GI	none	Score	358
Exons	34559..34780, 34565..34768, 34573..34770, 34886..35116, 34886..35116, 34888..35118, 35073..35123, 35953..36045, 35961..36044, 36514..36699, 36521..36937, 36525..36656, 36525..36947, 36526..36948, 36981..37121, 36997..37119,		

37004..37138, 37006..37122, 37673..37762, 37673..37771,  
37674..37769, 37674..37775, 37831..37884, 37836..37886,  
37836..37913, 37840..37908

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o14.ts	Method	TBLASTX:Soybean
Start	34913	End	36807
GI	none	Score	45
Exons	34913..34951, 34952..35116, 35961..36044, 36529..36597, 36582..36776, 36598..36807		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o2.tw	Method	TBLASTX:Wheat
Start	35003	End	37138
GI	none	Score	75
Exons	35003..35110, 35006..35134, 36531..36704, 36730..36948, 36813..36947, 37004..37036, 37006..37038, 37070..37138		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o6.tc	Method	TBLASTX:Cress
Start	36730	End	37138
GI	none	Score	138
Exons	36730..36948, 36813..36947, 37004..37036, 37070..37138		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o6.ts	Method	TBLASTX:Soybean
Start	36814	End	37902
GI	none	Score	149
Exons	36814..36948, 36816..36947, 37004..37138, 37004..37108, 37006..37122, 37674..37763, 37849..37902		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o4.tm	Method	TBLASTX:Maize
Start	38514	End	39527
GI	none	Score	312
Exons	38514..38750, 38538..38747, 38561..38752, 39239..39388, 39240..39380, 39416..39526, 39423..39527		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o10.ts	Method	TBLASTX:Soybean
Start	38559	End	39385
GI	none	Score	159
Exons	38559..38744, 38561..38752, 39239..39385, 39240..39374		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
----------	-------	---------	---------------------



Gene No. 76927  
 Start 44707  
 Name OJ990908\_08.9C23.C8.o9.ts  
 Start 39437  
 GI none  
 Exons 39437..39649, 39504..39623

Strand -  
 End 48482  
 Method TBLASTX:Soybean  
 End 39649  
 Score 87

Seq. No. 37490  
 Gene No. 76927  
 Start 44707  
 Name OJ990908\_08.9C23.C8.o10.gp  
 Start 44048  
 GI 16132\_1.R1084  
 Exons 44048..44919, 45017..45163, 45252..45464, 45551..45848  
 GI Descrip. '4204265 8.0e-82 (AC005223) 45643 [Arabidopsis thaliana]'

Seq. ID OJ990908\_08.9C23.C8  
 Strand -  
 End 48482  
 Method AAT/GAP  
 End 45848  
 Score 2942

Seq. No. 37490  
 Gene No. 76927  
 Start 44707  
 Name OJ990908\_08.9C23.C8.o1.tm  
 Start 44484  
 GI none

Seq. ID OJ990908\_08.9C23.C8  
 Strand -  
 End 48482  
 Method TBLASTX:Maize  
 End 47770  
 Score 37

Exons 44484..44507, 44512..44568, 44533..44568, 44570..44596,  
 44575..44592, 44629..44823, 44702..44827, 44804..44920,  
 44851..44919, 44991..45158, 45016..45150, 45056..45166,  
 45074..45166, 45247..45459, 45249..45275, 45249..45464,  
 45259..45465, 45545..45907, 45546..45926, 45549..45893,  
 45553..45933, 45641..45934, 45931..45972, 45944..45973,  
 45946..45966, 45949..45993, 45958..45996, 45968..45997,  
 45975..45998, 46042..46116, 46043..46117, 46048..46173,  
 46049..46180, 46050..46181, 46266..46436, 46274..46327,  
 46275..46340, 46322..46435, 46389..46436, 46434..46526,  
 46434..46526, 46435..46527, 46539..46568, 46548..46715,  
 46549..46713, 46701..46769, 46717..46812, 46718..46813,  
 47171..47245, 47172..47246, 47403..47561, 47433..47540,  
 47437..47556, 47686..47769, 47687..47770

Seq. No. 37490  
 Gene No. 76927  
 Start 44707  
 Name OJ990908\_08.9C23.C8.o1.tw  
 Start 44618  
 GI none

Seq. ID OJ990908\_08.9C23.C8  
 Strand -  
 End 48482  
 Method TBLASTX:Wheat  
 End 45465  
 Score 34

Exons 44618..44665, 44665..44694, 44731..44811, 44743..44793,  
 44752..44856, 44804..44857, 44842..44901, 44843..44902,  
 44845..44919, 44846..44920, 45006..45158, 45016..45159,  
 45016..45159, 45056..45163, 45249..45464, 45252..45359,  
 45253..45465

Seq. No. 37490  
 Gene No. 76927  
 Start 44707  
 Name OJ990908\_08.9C23.C8.o10.gs  
 Start 44707  
 GI none

Seq. ID OJ990908\_08.9C23.C8  
 Strand -  
 End 48482  
 Method GENSCAN  
 End 48232  
 Score .97

Exons 44707..44919, 45017..45163, 45252..45464, 45551..46168,  
 46275..46814, 47171..47271, 47438..47555, 47680..47765,

48118..48232

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o8.np	Method	AAT/NAP
Start	44999	End	48145
GI	4204265	Score	1011
Exons	44999..45163, 45252..45464, 45551..46022, 46053..46168, 46275..46640, 46695..46793, 47171..47220, 47411..47546, 47665..47765, 48118..48145		
GI Descrip.	(AC005223) 45643 [Arabidopsis thaliana]		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o2.ts	Method	TBLASTX:Soybean
Start	45012	End	46529
GI	none	Score	35
Exons	45012..45035, 45033..45164, 45062..45166, 45249..45464, 45250..45489, 45545..45766, 45601..45723, 45618..45788, 45776..45811, 45824..45940, 45824..45997, 46094..46129, 46311..46529		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o2.tc	Method	TBLASTX:Cress
Start	45015	End	45997
GI	none	Score	48
Exons	45015..45041, 45036..45164, 45062..45166, 45249..45464, 45250..45489, 45545..45778, 45546..45770, 45842..45997, 45843..45887		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o13.ts	Method	TBLASTX:Soybean
Start	46783	End	47770
GI	none	Score	85
Exons	46783..46812, 47171..47245, 47172..47246, 47403..47561, 47433..47540, 47437..47556, 47686..47769, 47687..47770, 47720..47770		

Seq. No.	37490	Seq. ID	OJ990908_08.9C23.C8
Gene No.	76927	Strand	-
Start	44707	End	48482
Name	OJ990908_08.9C23.C8.o11.gp	Method	AAT/GAP
Start	47677	End	48482
GI	50660_1.R1084	Score	826
Exons	47677..47765, 48118..48482		
GI Descrip.	'4512233/dbj AB014743.1 AB014743 1.0e-176 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76928	Strand	+
Start	1	End	79

Name	OJ990908_08.9C23.C9.o1.np	Method	AAT/NAP
Start	1	End	79
GI	5042454	Score	88
Exons	1..79		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76929	Strand	+
Start	810	End	6243
Name	OJ990908_08.9C23.C9.o2.np	Method	AAT/NAP
Start	810	End	6243
GI	6498441	Score	7032
Exons	810..1873, 2204..2667, 2731..3104, 3288..3422, 3597..4320, 4492..5889, 5983..6243		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76930	Strand	+
Start	11920	End	13006
Name	OJ990908_08.9C23.C9.o5.np	Method	AAT/NAP
Start	11920	End	13006
GI	6815053	Score	724
Exons	11920..12067, 12568..12743, 12771..13006		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o4.tm	Method	TBLASTX:Maize
Start	1001	End	1249
GI	none	Score	193
Exons	1001..1249, 1003..1248		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o6.tw	Method	TBLASTX:Wheat
Start	1013	End	1351
GI	none	Score	116
Exons	1013..1111, 1030..1110, 1078..1317, 1094..1351		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o3.tw	Method	TBLASTX:Wheat
Start	2088	End	2574
GI	none	Score	409
Exons	2088..2261, 2089..2574, 2283..2543		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o1.tw	Method	TBLASTX:Wheat
Start	2738	End	3201
GI	none	Score	202

Exons 2738..3181, 2739..3194, 2740..3201, 2740..3195

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o3.ts	Method	TBLASTX:Soybean
Start	2779	End	3144
GI	none	Score	117
Exons	2779..3003, 3010..3144		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o1.tm	Method	TBLASTX:Maize
Start	2869	End	3225
GI	none	Score	392
Exons	2869..3225, 2904..3215, 3109..3225		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o3.tm	Method	TBLASTX:Maize
Start	3252	End	3636
GI	none	Score	363
Exons	3252..3617, 3253..3636		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o2.tw	Method	TBLASTX:Wheat
Start	3310	End	3729
GI	none	Score	492
Exons	3310..3729, 3313..3588, 3351..3704		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o1.ts	Method	TBLASTX:Soybean
Start	3388	End	3759
GI	none	Score	282
Exons	3388..3759, 3405..3548		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o5.tw	Method	TBLASTX:Wheat
Start	4165	End	4626
GI	none	Score	232
Exons	4165..4416, 4192..4416, 4257..4433, 4477..4626, 4486..4611, 4488..4625		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o2.ts	Method	TBLASTX:Soybean
Start	4315	End	4881
GI	5666795	Score	68

Exons 4315..4413, 4489..4626, 4681..4881  
GI Descrip. 4206306 2.0e-10 (AF049110) prpol [Zea mays]

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o8.tw	Method	TBLASTX:Wheat
Start	4629	End	4941
GI	none	Score	191
Exons	4629..4916, 4681..4941		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o2.tm	Method	TBLASTX:Maize
Start	5134	End	5466
GI	none	Score	366
Exons	5134..5457, 5163..5444, 5254..5466		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o4.tw	Method	TBLASTX:Wheat
Start	5271	End	5672
GI	none	Score	372
Exons	5271..5672, 5272..5652		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o7.tw	Method	TBLASTX:Wheat
Start	5677	End	6234
GI	none	Score	232
Exons	5677..5943, 5679..5936, 5701..5991, 6108..6227, 6109..6234		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o5.tm	Method	TBLASTX:Maize
Start	6102	End	6246
GI	none	Score	192
Exons	6102..6242, 6103..6246		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o2.gs	Method	GENSCAN
Start	6867	End	10421
GI	none	Score	.9
Exons	6867..8357, 8599..10021, 10192..10421		

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o3.np	Method	AAT/NAP
Start	6870	End	10002
GI	6907089	Score	4141

Exons 6870..8640, 8741..10002  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No.	37491	Seq. ID	OJ990908_08.9C23.C9
Gene No.	76931	Strand	-
Start	6867	End	11875
Name	OJ990908_08.9C23.C9.o4.np	Method	AAT/NAP
Start	9055	End	11875
GI	5922623	Score	128
Exons	9055..9075, 10820..10895, 11079..11232, 11790..11875		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		
	gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76932	Strand	+
Start	5783	End	8124
Name	OJ991109_12.0105.C2.o2.np	Method	AAT/NAP
Start	5783	End	8124
GI	2244874	Score	85
Exons	5783..6039, 6100..6237, 7026..7183, 8106..8124		
GI Descrip.	(297338) cell wall protein like [Arabidopsis thaliana]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76933	Strand	+
Start	18759	End	27137
Name	OJ991109_12.0105.C2.o5.gs	Method	GENSCAN
Start	18759	End	27137
GI	none	Score	.63
Exons	18759..19090, 21803..21978, 23054..23115, 23405..23598, 23894..24374, 24519..24748, 24940..25052, 25116..25193, 25479..25721, 25794..25898, 26881..27137		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76933	Strand	+
Start	18759	End	27137
Name	OJ991109_12.0105.C2.o5.np	Method	AAT/NAP
Start	23486	End	26799
GI	6691716	Score	2408
Exons	23486..24368, 24564..24748, 24831..24941, 25018..25193, 25275..25459, 25532..25633, 25784..25898, 25970..26286, 26676..26799		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		
	gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76934	Strand	+
Start	36410	End	37907
Name	OJ991109_12.0105.C2.o7.np	Method	AAT/NAP
Start	36410	End	37907
GI	6553905	Score	108
Exons	36410..36544, 37716..37907		
GI Descrip.	(AC012563) unknown protein [Arabidopsis thaliana]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76934	Strand	+

Start	36410	End	37907
Name	OJ991109_12.0105.C2.o1.gp	Method	AAT/GAP
Start	37097	End	37551
GI	25792_1.R1084	Score	811
Exons	37097..37551		
GI Descrip.	'4512233/dbj AB014743.1 AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76935	Strand	+
Start	38565	End	39509
Name	OJ991109_12.0105.C2.o8.np	Method	AAT/NAP
Start	38565	End	39509
GI	6705984	Score	1530
Exons	38565..39509		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76936	Strand	-
Start	356	End	4391
Name	OJ991109_12.0105.C2.o1.gs	Method	GENSCAN
Start	356	End	3422
GI	none	Score	.47
Exons	356..594, 1262..1398, 1413..1564, 3195..3326, 3377..3422		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76936	Strand	-
Start	356	End	4391
Name	OJ991109_12.0105.C2.o1.np	Method	AAT/NAP
Start	1340	End	4391
GI	1084462	Score	412
Exons	1340..1598, 4225..4391		
GI Descrip.	RCg2 protein - rice gi 786130 (L27209) RCc2 [Oryza sativa] gi 786134 (L27210) root-specific protein [Oryza sativa]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76936	Strand	-
Start	356	End	4391
Name	OJ991109_12.0105.C2.o2.gs	Method	GENSCAN
Start	4137	End	4391
GI	none	Score	.97
Exons	4137..4391		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76937	Strand	-
Start	9028	End	9417
Name	OJ991109_12.0105.C2.o3.np	Method	AAT/NAP
Start	9028	End	9417
GI	1084462	Score	441
Exons	9028..9417		
GI Descrip.	RCg2 protein - rice gi 786130 (L27209) RCc2 [Oryza sativa] gi 786134 (L27210) root-specific protein [Oryza sativa]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76938	Strand	-
Start	9572	End	11920
Name	OJ991109_12.0105.C2.o4.np	Method	AAT/NAP

Start	9572	End	11920
GI	6539588	Score	137
Exons	9572..9660, 10919..11206, 11894..11920		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o10.tw	Method	TBLASTX:Wheat
Start	1328	End	34410
GI	none	Score	57
Exons	1328..1405, 1334..1405, 1416..1499, 1417..1506, 1541..1591, 4179..4232, 9020..9103, 9022..9105, 9103..9186, 9113..9193, 9229..9420, 17978..18142, 17978..18142, 17985..18236, 18127..18159, 18182..18253, 34279..34410		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o1.tc	Method	TBLASTX:Cress
Start	1337	End	21099
GI	none	Score	69

Exons	1337..1423, 1399..1506, 1401..1505, 1502..1612, 4158..4229, 9025..9192, 9035..9169, 9172..9291, 9307..9348, 17978..18058, 18059..18148, 18063..18125, 18137..18262, 20962..21024, 21013..21099		
-------	--	--	--

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o2.ts	Method	TBLASTX:Soybean
Start	1340	End	18230
GI	none	Score	88
Exons	1340..1423, 1396..1497, 1401..1499, 1506..1586, 1535..1585, 4176..4226, 9028..9186, 9035..9184, 9181..9273, 9226..9264, 17981..18058, 18057..18140, 18059..18142, 18137..18229, 18147..18230		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o4.tm	Method	TBLASTX:Maize
Start	1340	End	18295
GI	none	Score	100
Exons	1340..1423, 1343..1498, 1344..1499, 1399..1506, 1401..1505, 1485..1538, 1541..1627, 1542..1613, 4182..4250, 9024..9185, 9028..9186, 9028..9192, 9029..9193, 9229..9306, 9229..9315, 9261..9329, 9277..9420, 17981..18058, 17981..18058, 18057..18149, 18059..18148, 18137..18181, 18185..18271, 18186..18272, 18254..18295		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o11.tw	Method	TBLASTX:Wheat
Start	23614	End	23857
GI	none	Score	189



Exons 23614..23832, 23615..23857

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o4.tw	Method	TBLASTX:Wheat
Start	26403	End	27017
GI	none	Score	82
Exons	26403..26540, 26526..27017, 26725..26856, 26908..26997		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o6.np	Method	AAT/NAP
Start	26427	End	34454
GI	5922631	Score	5902
Exons	26427..28948, 29555..29655, 32638..33167, 33195..33490, 33617..33767, 33807..34454		

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o6.tm	Method	TBLASTX:Maize
Start	26442	End	26696
GI	none	Score	100
Exons	26442..26543, 26443..26544, 26523..26696, 26524..26583		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o7.tm	Method	TBLASTX:Maize
Start	26787	End	27060
GI	none	Score	45
Exons	26787..26873, 26886..26966, 26896..26970, 26961..27059, 26962..27060		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o6.tw	Method	TBLASTX:Wheat
Start	27033	End	27386
GI	none	Score	195
Exons	27033..27386, 27040..27381		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o1.tm	Method	TBLASTX:Maize
Start	27198	End	27546
GI	none	Score	221

Exons 27198..27476, 27199..27477, 27481..27546

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o5.tw	Method	TBLASTX:Wheat
Start	27831	End	28253
GI	none	Score	212
Exons	27831..28253, 27907..28248		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o4.ts	Method	TBLASTX:Soybean
Start	27874	End	28262
GI	none	Score	146
Exons	27874..28254, 27876..28262		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o8.tw	Method	TBLASTX:Wheat
Start	28254	End	28538
GI	none	Score	48
Exons	28254..28349, 28257..28538, 28431..28535		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o3.tm	Method	TBLASTX:Maize
Start	28377	End	28820
GI	none	Score	57
Exons	28377..28403, 28401..28544, 28416..28532, 28567..28779, 28581..28820		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o3.ts	Method	TBLASTX:Soybean
Start	28522	End	28919
GI	none	Score	42
Exons	28522..28692, 28581..28919, 28729..28872		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o3.tw	Method	TBLASTX:Wheat
Start	28543	End	28967
GI	none	Score	279
Exons	28543..28923, 28560..28967, 28561..28848, 28581..28967		

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76939	Strand	-
Start	26427	End	35805
Name	OJ991109_12.0105.C2.o2.tm	Method	TBLASTX:Maize
Start	29052	End	29408
GI	none	Score	191

Exons 29052..29408, 29074..29367

Seq. No. 37492  
Gene No. 76939  
Start 26427  
Name OJ991109\_12.0105.C2.o2.tw  
Start 29082  
GI none  
Exons 29082..29537, 29083..29538

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 35805  
Method TBLASTX:Wheat  
End 29538  
Score 260

Seq. No. 37492  
Gene No. 76939  
Start 26427  
Name OJ991109\_12.0105.C2.o5.ts  
Start 29133  
GI none  
Exons 29133..29267, 29277..29498

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 35805  
Method TBLASTX:Soybean  
End 29498  
Score 121

Seq. No. 37492  
Gene No. 76939  
Start 26427  
Name OJ991109\_12.0105.C2.o7.gs  
Start 32553  
GI none  
Exons 32553..33476, 33561..34267, 34921..35300, 35762..35805

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 35805  
Method GENSCAN  
End 35805  
Score .76

Seq. No. 37492  
Gene No. 76939  
Start 26427  
Name OJ991109\_12.0105.C2.o7.tw  
Start 32763  
GI none  
Exons 32763..33146, 32779..33021

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 35805  
Method TBLASTX:Wheat  
End 33146  
Score 151

Seq. No. 37492  
Gene No. 76939  
Start 26427  
Name OJ991109\_12.0105.C2.o9.tw  
Start 33801  
GI none  
Exons 33801..34196

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 35805  
Method TBLASTX:Wheat  
End 34196  
Score 254

Seq. No. 37492  
Gene No. 76940  
Start 39006  
Name OJ991109\_12.0105.C2.o1.tw  
Start 39006  
GI none  
Exons 39006..39212, 39032..39187, 39048..39194, 39221..39505, 39225..39506, 39234..39506, 39421..39507

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 39507  
Method TBLASTX:Wheat  
End 39507  
Score 192

Seq. No. 37492  
Gene No. 76940  
Start 39006  
Name OJ991109\_12.0105.C2.o5.tm  
Start 39009  
GI none

Seq. ID OJ991109\_12.0105.C2  
Strand -  
End 39507  
Method TBLASTX:Maize  
End 39221  
Score 246

Exons 39009..39221, 39011..39220

Seq. No.	37492	Seq. ID	OJ991109_12.0105.C2
Gene No.	76940	Strand	
Start	39006	End	39507
Name	OJ991109_12.0105.C2.o1.ts	Method	TBLASTX:Soybean
Start	39053	End	39452
GI	none	Score	135
Exons	39053..39187, 39054..39194, 39230..39439, 39231..39452		

Seq. No.	37493	Seq. ID	OJ991109_12.0105.C3
Gene No.	76941	Strand	+
Start	1	End	895
Name	OJ991109_12.0105.C3.o1.np	Method	AAT/NAP
Start	1	End	895
GI	6705984	Score	1331
Exons	1..895		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	37493	Seq. ID	OJ991109_12.0105.C3
Gene No.	76941	Strand	+
Start	1	End	895
Name	OJ991109_12.0105.C3.o1.gs	Method	GENSCAN
Start	135	End	303
GI	none	Score	.54
Exons	135..303		

Seq. No.	37493	Seq. ID	OJ991109_12.0105.C3
Gene No.	76941	Strand	+
Start	1	End	895
Name	OJ991109_12.0105.C3.o1.tw	Method	TBLASTX:Wheat
Start	241	End	752
GI	none	Score	147
Exons	241..369, 243..368, 369..539, 371..541, 371..526, 532..717, 546..752, 556..702, 560..712		

Seq. No.	37493	Seq. ID	OJ991109_12.0105.C3
Gene No.	76941	Strand	+
Start	1	End	895
Name	OJ991109_12.0105.C3.o1.tm	Method	TBLASTX:Maize
Start	495	End	750
GI	none	Score	278
Exons	495..728, 500..709, 504..737, 529..750		

Seq. No.	37493	Seq. ID	OJ991109_12.0105.C3
Gene No.	76941	Strand	+
Start	1	End	895
Name	OJ991109_12.0105.C3.o1.ts	Method	TBLASTX:Soybean
Start	495	End	737
GI	none	Score	271
Exons	495..728, 500..676, 504..737		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76942	Strand	+
Start	1	End	14816
Name	OJ991109_12.0105.C4.o1.np	Method	AAT/NAP
Start	1	End	2147

GI 6705984 Score 3603  
 Exons 1..2147  
 GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No. 37494 Seq. ID OJ991109\_12.0105.C4  
 Gene No. 76942 Strand +  
 Start 1 End 14816  
 Name OJ991109\_12.0105.C4.o1.gs Method GENSCAN  
 Start 64 End 14816  
 GI none Score .55  
 Exons 64..1167, 1619..2240, 2824..3039, 3601..3716, 4896..5048,  
 5991..6416, 6621..6991, 7256..7452, 7469..8715, 8749..8859,  
 9154..9249, 9912..10512, 11318..11569, 11628..11753,  
 12146..12521, 12686..12846, 13094..13417, 13432..13766,  
 13850..14101, 14182..14292, 14380..14440, 14590..14682,  
 14760..14816

Seq. No. 37494 Seq. ID OJ991109\_12.0105.C4  
 Gene No. 76942 Strand +  
 Start 1 End 14816  
 Name OJ991109\_12.0105.C4.o1.gp Method AAT/GAP  
 Start 2106 End 2485  
 GI 2312718 Score 684

Exons 2106..2485  
 GI Descrip. 4512233/dbj|AB014743.1|AB014743 1.0e-176 Oryza sativa copia-type  
 retrotransposon RIRE7 DNA, partial sequence

Seq. No. 37494 Seq. ID OJ991109\_12.0105.C4  
 Gene No. 76942 Strand +  
 Start 1 End 14816  
 Name OJ991109\_12.0105.C4.o2.np Method AAT/NAP  
 Start 4451 End 9048  
 GI 4680203 Score 1366  
 Exons 4451..4479, 5936..7476, 7541..7666, 7823..8029, 8306..9048  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 37494 Seq. ID OJ991109\_12.0105.C4  
 Gene No. 76943 Strand +  
 Start 17580 End 24419  
 Name OJ991109\_12.0105.C4.o4.gs Method GENSCAN  
 Start 17580 End 23264  
 GI none Score .41  
 Exons 17580..17832, 17895..18055, 18167..18311, 19203..19429,  
 19847..20015, 20731..21009, 22975..23264

Seq. No. 37494 Seq. ID OJ991109\_12.0105.C4  
 Gene No. 76943 Strand +  
 Start 17580 End 24419  
 Name OJ991109\_12.0105.C4.o4.np Method AAT/NAP  
 Start 17665 End 22940  
 GI 2129709 Score 710  
 Exons 17665..17734, 20300..21028, 21366..22940  
 GI Descrip. reverse transcriptase - Arabidopsis thaliana retrotransposon  
 Tall-1 gi|976278 (L47193) reverse transcriptase [Arabidopsis  
 thaliana]

Seq. No. 37494 Seq. ID OJ991109\_12.0105.C4

Gene No.	76943	Strand	+
Start	17580	End	24419
Name	OJ991109_12.0105.C4.o5.np	Method	AAT/NAP
Start	21999	End	24419
GI	6682231	Score	209
Exons	21999..22896, 24364..24419		
GI Descrip.	(AC016661) putative non-LTR reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76944	Strand	+
Start	33882	End	36179
Name	OJ991109_12.0105.C4.o7.gp	Method	AAT/GAP
Start	33882	End	35737
GI	LIB3477-003-P1-K1-E9	Score	.114
Exons	33882..33945, 34319..34346, 35711..35737		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76944	Strand	+
Start	33882	End	36179
Name	OJ991109_12.0105.C4.o7.gs	Method	GENSCAN
Start	34077	End	36179
GI	none	Score	.8
Exons	34077..34130, 34788..34863, 35548..35709, 35791..36179		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76945	Strand	-
Start	2657	End	3000
Name	OJ991109_12.0105.C4.o2.gp	Method	AAT/GAP
Start	2657	End	3000
GI	25792_1.R1084	Score	628
Exons	2657..3000		
GI Descrip.	'4512233/dbj AB014743.1 AB014743 0.0e+00 Oryza sativa copia-type retrotransposon RIRE7 DNA, partial sequence'		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76946	Strand	-
Start	15169	End	15696
Name	OJ991109_12.0105.C4.o2.gs	Method	GENSCAN
Start	15169	End	15696
GI	none	Score	.83
Exons	15169..15696		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76947	Strand	-
Start	16553	End	17154
Name	OJ991109_12.0105.C4.o3.gs	Method	GENSCAN
Start	16553	End	17154
GI	none	Score	.87
Exons	16553..16969, 17017..17154		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76948	Strand	-
Start	17539	End	19084

Name	OJ991109_12.0105.C4.o3.np	Method	AAT/NAP
Start	17539	End	19084
GI	6716785	Score	388
Exons	17539..17569, 18716..18842, 18924..19084		
GI Descrip.	(AF220539) 40s ribosomal protein S23 [Euphorbia esula]		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76949	Strand	-
Start	24082	End	25544
Name	OJ991109_12.0105.C4.o5.gs	Method	GENSCAN
Start	24082	End	25544
GI	none	Score	.83
Exons	24082..24194, 24465..24514, 25021..25233, 25288..25544		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o2.ts	Method	TBLASTX:Soybean
Start	43	End	415
GI	none	Score	338
Exons	43..96, 56..415, 175..414		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o7.tw	Method	TBLASTX:Wheat
Start	128	End	529
GI	none	Score	306
Exons	128..529, 175..528		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o6.tm	Method	TBLASTX:Maize
Start	176	End	679
GI	none	Score	387
Exons	176..679, 217..597		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o3.ts	Method	TBLASTX:Soybean
Start	443	End	696
GI	none	Score	331
Exons	443..694, 443..679, 466..696, 496..696		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o2.tw	Method	TBLASTX:Wheat
Start	616	End	1042
GI	none	Score	692
Exons	616..1041, 617..1042		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801

Name	OJ991109_12.0105.C4.o8.ts	Method	TBLASTX:Soybean
Start	791	End	1033
GI	none	Score	180
Exons	791..964, 793..957, 977..1033		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o12.tm	Method	TBLASTX:Maize
Start	821	End	985
GI	none	Score	206
Exons	821..985, 822..956, 823..984, 827..985		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o1.tc	Method	TBLASTX:Cress
Start	988	End	1357
GI	none	Score	447
Exons	988..1356, 995..1357		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o3.tm	Method	TBLASTX:Maize
Start	1075	End	1424
GI	none	Score	511
Exons	1075..1419, 1076..1420, 1260..1424		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o5.tw	Method	TBLASTX:Wheat
Start	1169	End	1528
GI	none	Score	418
Exons	1169..1528, 1173..1517, 1174..1518, 1211..1522		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o3.tw	Method	TBLASTX:Wheat
Start	1559	End	1958
GI	none	Score	82
Exons	1559..1627, 1561..1623, 1583..1627, 1604..1951, 1625..1930, 1626..1958, 1626..1952, 1627..1839, 1741..1950		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o7.tm	Method	TBLASTX:Maize
Start	1877	End	2123
GI	none	Score	345
Exons	1877..2092, 1878..2123		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801



Name	OJ991109_12.0105.C4.o6.tw	Method	TBLASTX:Wheat
Start	6385	End	6969
GI	none	Score	221
Exons	6385..6675, 6507..6695, 6724..6843, 6730..6849, 6841..6969		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o4.ts	Method	TBLASTX:Soybean
Start	6397	End	6675
GI	none	Score	258
Exons	6397..6675, 6420..6563		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o4.tc	Method	TBLASTX:Cress
Start	6712	End	6969
GI	none	Score	204
Exons	6712..6969		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o9.ts	Method	TBLASTX:Soybean
Start	6744	End	6983
GI	none	Score	194
Exons	6744..6983, 6745..6978		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o14.tm	Method	TBLASTX:Maize
Start	6807	End	7042
GI	none	Score	168
Exons	6807..6995, 6838..6975, 6986..7042, 7004..7042		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o1.tw	Method	TBLASTX:Wheat
Start	7913	End	9115
GI	none	Score	556
Exons	7913..8668, 8158..8442, 8647..8820, 8681..8836, 8824..8928, 8825..8929, 8942..9046, 8947..9045, 9053..9115		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o5.tm	Method	TBLASTX:Maize
Start	7957	End	8272
GI	none	Score	398
Exons	7957..8268, 7958..8272		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801

Name	OJ991109_12.0105.C4.o3.tc	Method	TBLASTX:Cress
Start	8203	End	8626
GI	none	Score	325
Exons	8203..8442, 8204..8626		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o9.tm	Method	TBLASTX:Maize
Start	8522	End	8817
GI	none	Score	159
Exons	8522..8692, 8696..8815, 8725..8817		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o10.tm	Method	TBLASTX:Maize
Start	15466	End	17085
GI	none	Score	90
Exons	15466..15753, 15614..15748, 16811..16936, 16954..17085, 16956..16982, 16999..17085		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o5.tc	Method	TBLASTX:Cress
Start	15505	End	17085
GI	none	Score	90
Exons	15505..15753, 16811..16936, 16999..17085		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o7.ts	Method	TBLASTX:Soybean
Start	15505	End	17085
GI	none	Score	67
Exons	15505..15753, 16811..16936, 16954..17085, 16999..17085		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o1.ts	Method	TBLASTX:Soybean
Start	18705	End	19080
GI	none	Score	166
Exons	18705..18845, 18715..18840, 18716..18853, 18716..18841, 18923..19078, 18924..19079, 18925..19080		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o2.tc	Method	TBLASTX:Cress
Start	18705	End	19078
GI	none	Score	169
Exons	18705..18845, 18716..18841, 18718..18843, 18923..19078, 18924..19076		
Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4

Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o4.tm	Method	TBLASTX:Maize
Start	18708	End	19080
GI	none	Score	200
Exons	18708..18845, 18716..18841, 18774..18842, 18923..19075, 18923..19078, 18924..19079, 18924..19079, 18925..19080		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o4.tw	Method	TBLASTX:Wheat
Start	18714	End	24225
GI	none	Score	188
Exons	18714..18845, 18716..18853, 18716..18841, 18923..19078, 18924..19076, 24120..24161, 24121..24159, 24181..24225, 24187..24225		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o15.tm	Method	TBLASTX:Maize
Start	20322	End	20834
GI	none	Score	58
Exons	20322..20423, 20445..20678, 20604..20786, 20742..20834		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o8.tw	Method	TBLASTX:Wheat
Start	20391	End	20669
GI	none	Score	220
Exons	20391..20669, 20435..20653		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o9.tw	Method	TBLASTX:Wheat
Start	20739	End	20999
GI	none	Score	187
Exons	20739..20999		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o11.tm	Method	TBLASTX:Maize
Start	21657	End	22031
GI	none	Score	92
Exons	21657..21863, 21674..21817, 21846..22031		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o13.tm	Method	TBLASTX:Maize
Start	25153	End	25366
GI	none	Score	89
Exons	25153..25242, 25166..25243, 25233..25283, 25243..25365,		

25280..25366

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o6.gs	Method	GENSCAN
Start	26786	End	32647
GI	none	Score	.48
Exons	26786..26808, 27017..27151, 27341..27535, 28101..30000, 30561..30665, 31014..31278, 31851..32091, 32614..32647		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o3.gp	Method	AAT/GAP
Start	26924	End	27392
GI	LIB3434-015-P1-K1-E7	Score	902
Exons	26924..27392		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o8.tm	Method	TBLASTX:Maize
Start	26964	End	27500
GI	none	Score	49
Exons	26964..26999, 26966..26998, 27037..27069, 27086..27148, 27086..27148, 27144..27179, 27149..27178, 27193..27216, 27232..27342, 27237..27341, 27336..27461, 27343..27462, 27474..27500		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o6.np	Method	AAT/NAP
Start	27697	End	32422
GI	2828293	Score	1363
Exons	27697..27822, 28097..28677, 28729..28808, 28836..29605, 29669..29759, 32384..32422		
GI Descrip.	(AL021687) putative protein [Arabidopsis thaliana]		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o2.tm	Method	TBLASTX:Maize
Start	28238	End	28639
GI	none	Score	453
Exons	28238..28639, 28288..28638		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o5.ts	Method	TBLASTX:Soybean
Start	28570	End	28792
GI	none	Score	94
Exons	28570..28695, 28574..28693, 28705..28785, 28712..28792		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o4.gp	Method	AAT/GAP
Start	28773	End	29281
GI	uC-osflcyp109e06b1	Score	897
Exons	28773..29281		
GI Descrip.	'2828293/emb CAA16707.1  3.0e-32 (AL021687) putative protein [Arabidopsis thaliana]'		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o6.ts	Method	TBLASTX:Soybean
Start	28960	End	29202
GI	none	Score	89
Exons	28960..29202, 28967..29137, 29158..29202		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o5.gp	Method	AAT/GAP
Start	29278	End	29380
GI	none	Score	202
Exons	29278..29380		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o1.tm	Method	TBLASTX:Maize
Start	29504	End	30037
GI	none	Score	495
Exons	29504..29938, 29506..29940, 29509..29940, 29933..30037, 29934..30032		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o6.gp	Method	AAT/GAP
Start	29708	End	30797
GI	2428420	Score	822
Exons	29708..30080, 30704..30797		

Seq. No.	37494	Seq. ID	OJ991109_12.0105.C4
Gene No.	76950	Strand	-
Start	26786	End	41801
Name	OJ991109_12.0105.C4.o7.np	Method	AAT/NAP
Start	30663	End	41801
GI	5917666	Score	208
Exons	30663..31265, 34046..34146, 36213..36263, 39252..39440, 39631..39759, 41754..41801		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76951	Strand	+
Start	2865	End	3513

Name	OJ991109_12.0105.C5.o2.gs	Method	GENSCAN
Start	2865	End	3513
GI	none	Score	.68
Exons	2865..3082, 3366..3513		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76952	Strand	+
Start	6200	End	7521
Name	OJ991109_12.0105.C5.o3.gs	Method	GENSCAN
Start	6200	End	7521
GI	none	Score	.78
Exons	6200..6426, 6628..6638, 6950..7521		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76953	Strand	+
Start	14247	End	18487
Name	OJ991109_12.0105.C5.o5.gs	Method	GENSCAN
Start	14247	End	18322
GI	none	Score	.57
Exons	14247..14404, 15422..15551, 15737..17261, 17668..17773, 18141..18322		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76953	Strand	+
Start	14247	End	18487
Name	OJ991109_12.0105.C5.o2.np	Method	AAT/NAP
Start	17746	End	18487
GI	2583130	Score	257
Exons	17746..18487		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76953	Strand	+
Start	14247	End	18487
Name	OJ991109_12.0105.C5.o3.np	Method	AAT/NAP
Start	18055	End	18487
GI	3746069	Score	167
Exons	18055..18487		
GI Descrip.	(AC005311) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76954	Strand	-
Start	391	End	2342
Name	OJ991109_12.0105.C5.o1.gs	Method	GENSCAN
Start	391	End	2342
GI	none	Score	.52
Exons	391..522, 1415..1508, 1920..2342		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o2.tm	Method	TBLASTX:Maize
Start	1288	End	2064
GI	none	Score	36
Exons	1288..1317, 1334..1510, 1335..1514, 1338..1514, 1905..2063,		

1918..2064

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o2.tc	Method	TBLASTX:Cress
Start	1353	End	2012
GI	none	Score	105
Exons	1353..1511, 1353..1514, 1929..2012, 1930..2010		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o1.tm	Method	TBLASTX:Maize
Start	9710	End	10385
GI	none	Score	102
Exons	9710..9757, 9765..9974, 9766..9957, 10024..10185, 10026..10184, 10167..10385, 10174..10299		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o1.np	Method	AAT/NAP
Start	9738	End	13546
GI	5915833	Score	693
Exons	9738..9968, 9996..10419, 12667..13546		
GI Descrip.	CYTOCHROME P450 76C3 gi 2979550 gb AAC06159.1  (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o4.gs	Method	GENSCAN
Start	9756	End	13549
GI	none	Score	.95
Exons	9756..10385, 10661..10691, 10864..10895, 12623..13549		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o1.ts	Method	TBLASTX:Soybean
Start	9771	End	10385
GI	none	Score	111
Exons	9771..9971, 10024..10185, 10026..10184, 10167..10385, 10174..10299		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-
Start	9756	End	13549
Name	OJ991109_12.0105.C5.o1.tc	Method	TBLASTX:Cress
Start	9810	End	13396
GI	none	Score	79
Exons	9810..9998, 10026..10184, 10030..10185, 10167..10397, 10191..10355, 13139..13216, 13193..13396		

Seq. No.	37495	Seq. ID	OJ991109_12.0105.C5
Gene No.	76955	Strand	-

Start	9756	End	13549
Name	OJ991109_12.0105.C5.o1.tw	Method	TBLASTX:Wheat
Start	10083	End	10385
GI	none	Score	69
Exons	10083..10172, 10087..10170, 10167..10385, 10188..10349		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76956	Strand	+
Start	1	End	3381
Name	OJ991109_12.0105.C6.o1.np	Method	AAT/NAP
Start	1	End	3381
GI	4982518	Score	695
Exons	1..2031, 3354..3381		
GI Descrip.	(AC000107) F17F8.24 [Arabidopsis thaliana]		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76956	Strand	+
Start	1	End	3381
Name	OJ991109_12.0105.C6.o1.gs	Method	GENSCAN
Start	65	End	3274
GI	none	Score	.45
Exons	65..934, 1496..1852, 2197..2430, 3050..3274		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76956	Strand	+
Start	1	End	3381
Name	OJ991109_12.0105.C6.o1.gp	Method	AAT/GAP
Start	2522	End	2952
GI	33357_1.R1084	Score	822
Exons	2522..2952		
GI Descrip.	'4262154/gb AAD14454  5.0e-42 (AC005275) putative protein phosphatase regulatory subunit [Arabidopsis thaliana]'		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76957	Strand	-
Start	3487	End	14249
Name	OJ991109_12.0105.C6.o2.gs	Method	GENSCAN
Start	3487	End	14249
GI	none	Score	.41
Exons	3487..3695, 3964..4142, 8064..8163, 8208..8375, 10235..10351, 11850..11975, 12198..12324, 14151..14249		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76958	Strand	-
Start	14964	End	15625
Name	OJ991109_12.0105.C6.o1.tm	Method	TBLASTX:Maize
Start	35	End	586
GI	none	Score	74
Exons	35..190, 197..586		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76958	Strand	-
Start	14964	End	15625
Name	OJ991109_12.0105.C6.o1.tw	Method	TBLASTX:Wheat
Start	140	End	538
GI	none	Score	189
Exons	140..421, 196..432, 461..538		



Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76958	Strand	-
Start	14964	End	15625
Name	OJ991109_12.0105.C6.o2.tm	Method	TBLASTX:Maize
Start	1067	End	1441
GI	none	Score	97
Exons	1067..1228, 1238..1441		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76958	Strand	-
Start	14964	End	15625
Name	OJ991109_12.0105.C6.o2.tw	Method	TBLASTX:Wheat
Start	1097	End	1513
GI	none	Score	82
Exons	1097..1207, 1252..1479, 1253..1513		

Seq. No.	37496	Seq. ID	OJ991109_12.0105.C6
Gene No.	76958	Strand	-
Start	14964	End	15625
Name	OJ991109_12.0105.C6.o3.gs	Method	GENSCAN
Start	14964	End	15625
GI	none	Score	68
Exons	14964..15301, 15517..15625		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o1.np	Method	AAT/NAP
Start	1	End	4451
GI	99721	Score	2284
Exons	1..54, 950..1438, 1469..4451		
GI Descrip.	retrovirus-related polyprotein - Arabidopsis thaliana retrotransposon Tal-3 gi 16534 emb CAA31653  (X13291) polyprotein [Arabidopsis thaliana]		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o1.gs	Method	GENSCAN
Start	204	End	4292
GI	none	Score	.63
Exons	204..252, 296..456, 589..731, 763..952, 954..1065, 1253..1685, 1801..3313, 3389..4292		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o4.tw	Method	TBLASTX:Wheat
Start	1002	End	1435
GI	none	Score	182
Exons	1002..1145, 1003..1155, 1135..1245, 1138..1239, 1152..1244, 1237..1275, 1248..1274, 1367..1435		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451

Name	OJ991109_12.0105.C7.o1.gp	Method	AAT/GAP
Start	1975	End	2411
GI	2428449	Score	822
Exons	1975..2411		
GI Descrip.	4388818/gb AAD19773  3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o2.tm	Method	TBLASTX:Maize
Start	2124	End	2597
GI	none	Score	335
Exons	2124..2597, 2313..2477, 2318..2596		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o3.tw	Method	TBLASTX:Wheat
Start	2138	End	2747
GI	none	Score	338
Exons	2138..2548, 2139..2588, 2588..2668, 2685..2747		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o2.ts	Method	TBLASTX:Soybean
Start	2358	End	2810
GI	none	Score	296
Exons	2358..2687, 2367..2612, 2387..2617, 2673..2810		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o1.tc	Method	TBLASTX:Cress
Start	2376	End	2950
GI	none	Score	188
Exons	2376..2669, 2676..2843, 2676..2852, 2684..2950		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o1.tw	Method	TBLASTX:Wheat
Start	3023	End	3460
GI	none	Score	611
Exons	3023..3460, 3024..3458		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o3.tm	Method	TBLASTX:Maize
Start	3290	End	3728
GI	none	Score	329
Exons	3290..3595, 3300..3728		

Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
----------	-------	---------	---------------------

Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o2.tc	Method	TBLASTX:Cress
Start	3300	End	3506
GI	none	Score	194
Exons	3300..3506, 3300..3371, 3305..3424		
Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o1.ts	Method	TBLASTX:Soybean
Start	3324	End	3713
GI	none	Score	382
Exons	3324..3713, 3335..3667, 3418..3675		
Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o2.gp	Method	AAT/GAP
Start	3459	End	3701
GI	1621494	Score	438
Exons	3459..3701		
GI Descrip.	1621495/dbj BAA12903 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]		
Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o2.tw	Method	TBLASTX:Wheat
Start	3462	End	4082
GI	none	Score	165
Exons	3462..3611, 3647..3838, 3648..4082, 3777..3932, 3899..4081		
Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o1.tm	Method	TBLASTX:Maize
Start	3731	End	4274
GI	none	Score	115
Exons	3731..3823, 3732..3893, 3859..3945, 3866..4177, 3867..4172, 3926..4174, 4212..4274, 4214..4273		
Seq. No.	37497	Seq. ID	OJ991109_12.0105.C7
Gene No.	76959	Strand	+
Start	1	End	4451
Name	OJ991109_12.0105.C7.o3.ts	Method	TBLASTX:Soybean
Start	4089	End	4358
GI	none	Score	66
Exons	4089..4163, 4091..4162, 4194..4358, 4208..4357		
Seq. No.	37498	Seq. ID	OJ991209_10.0119.C1
Gene No.	76960	Strand	+
Start	223	End	522
Name	OJ991209_10.0119.C1.o1.gs	Method	GENSCAN
Start	223	End	522
GI	none	Score	.92
Exons	223..522		

Seq. No.	37499	Seq. ID	OJ991209_10.0119.C2
Gene No.	76961	Strand	+
Start	1	End	206
Name	OJ991209_10.0119.C2.ol.np	Method	AAT/NAP
Start	1	End	194
GI	6691716	Score	216
Exons	1..194		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	37499	Seq. ID	OJ991209_10.0119.C2
Gene No.	76961	Strand	+
Start	1	End	206
Name	OJ991209_10.0119.C2.ol.gs	Method	GENSCAN
Start	52	End	206
GI	none	Score	.58
Exons	52..206		

Seq. No.	37500	Seq. ID	OJ991209_10.0119.C4
Gene No.	76962	Strand	-
Start	1	End	489
Name	OJ991209_10.0119.C4.ol.np	Method	AAT/NAP
Start	1	End	489
GI	6006375	Score	597
Exons	1..489		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	37501	Seq. ID	OJ991209_10.0119.C5
Gene No.	76963	Strand	+
Start	346	End	691
Name	OJ991209_10.0119.C5.ol.gs	Method	GENSCAN
Start	346	End	691
GI	none	Score	.52
Exons	346..407, 472..691		

Seq. No.	37502	Seq. ID	OJ991209_10.0119.C6
Gene No.	76964	Strand	+
Start	1	End	450
Name	OJ991209_10.0119.C6.ol.np	Method	AAT/NAP
Start	1	End	441
GI	1142619	Score	102
Exons	1..441		
GI Descrip.	(U18348) phaseolin-G-box binding protein PGI [Phaseolus vulgaris]		

Seq. No.	37502	Seq. ID	OJ991209_10.0119.C6
Gene No.	76964	Strand	+
Start	1	End	450
Name	OJ991209_10.0119.C6.ol.gs	Method	GENSCAN
Start	25	End	450
GI	none	Score	.99
Exons	25..450		

Seq. No.	37502	Seq. ID	OJ991209_10.0119.C6
----------	-------	---------	---------------------

Gene No.	76965	Strand	-
Start	2002	End	6554
Name	OJ991209_10.0119.C6.o2.gs	Method	GENSCAN
Start	2002	End	6554
GI	none	Score	.44
Exons	2002..2090, 2497..2693, 3797..3881, 6524..6554		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76966	Strand	+
Start	21	End	9379
Name	OJ991209_10.0119.C7.o1.gs	Method	GENSCAN
Start	21	End	9340
GI	none	Score	.65
Exons	21..170, 845..943, 1016..1071, 1449..1560, 2078..2248, 2352..2585, 2827..3045, 3146..3332, 3442..3950, 4057..4155, 4229..4676, 4805..4857, 6055..6250, 6375..9340		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76966	Strand	+
Start	21	End	9379
Name	OJ991209_10.0119.C7.o1.gp	Method	AAT/GAP
Start	1464	End	2600
GI	none	Score	952
Exons	1464..1560, 2078..2248, 2352..2600		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76966	Strand	+
Start	21	End	9379
Name	OJ991209_10.0119.C7.o2.np	Method	AAT/NAP
Start	2436	End	9379
GI	117794	Score	37
Exons	2436..2461, 8195..8413, 9023..9095, 9352..9379		
GI Descrip.	ADENYLATE CYCLASE (ATP PYROPHOSPHATE-LYASE) (ADENYLYL CYCLASE) gi 101011 pir A33988 adenylate cyclase (EC 4.6.1.1) - fission yeast (Schizosaccharomyces pombe) gi 173339 (M26699) adenylyl cyclase [Schizosaccharomyces pombe] gi 173379 (M24942) adenylate cyclase [Schizosaccharomyces pombe] gi 3218407 emb CAA19571.1  (AL023859) adenylate cyclase [Schizosaccharomyces po		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76966	Strand	+
Start	21	End	9379
Name	OJ991209_10.0119.C7.o2.gp	Method	AAT/GAP
Start	3653	End	4393
GI	none	Score	1077
Exons	3653..3950, 4057..4155, 4229..4393		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76966	Strand	+
Start	21	End	9379
Name	OJ991209_10.0119.C7.o4.gp	Method	AAT/GAP
Start	6312	End	6732
GI	701907	Score	689
Exons	6312..6732		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76966	Strand	+

Start	21	End	9379
Name	OJ991209_10.0119.C7.o1.np	Method	AAT/NAP
Start	7010	End	8508
GI	6649097	Score	957
Exons	7010..7868, 8414..8508		
GI Descrip.	(AF146275) resistance gene analog PIC27 [Oryza sativa]		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76967	Strand	-
Start	5537	End	5777
Name	OJ991209_10.0119.C7.o3.ts	Method	TBLASTX:Soybean
Start	839	End	4323
GI	none	Score	98
Exons	839..952, 1019..1072, 1447..1560, 2057..2227, 2075..2182, 2174..2248, 2176..2247, 2349..2540, 2887..2964, 3858..3935, 3866..3937, 4056..4163, 4057..4161, 4237..4281, 4241..4270, 4297..4323		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76967	Strand	-
Start	5537	End	5777
Name	OJ991209_10.0119.C7.o2.tm	Method	TBLASTX:Maize
Start	2820	End	3594
GI	none	Score	55
Exons	2820..2867, 2831..2866, 2865..2885, 2893..3045, 2902..3057, 2946..3065, 3144..3287, 3144..3245, 3146..3310, 3298..3315, 3311..3367, 3313..3366, 3444..3539, 3452..3502, 3529..3594, 3529..3585		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76967	Strand	-
Start	5537	End	5777
Name	OJ991209_10.0119.C7.o1.tm	Method	TBLASTX:Maize
Start	3738	End	4854
GI	none	Score	213
Exons	3738..3773, 3767..3949, 3783..3953, 3823..3960, 4057..4161, 4060..4092, 4061..4153, 4210..4362, 4226..4282, 4228..4287, 4291..4362, 4336..4443, 4339..4452, 4340..4453, 4520..4624, 4523..4624, 4564..4626, 4630..4653, 4673..4717, 4679..4717, 4693..4719, 4802..4843, 4803..4844, 4804..4854		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76967	Strand	-
Start	5537	End	5777
Name	OJ991209_10.0119.C7.o3.gp	Method	AAT/GAP
Start	5537	End	5777
GI	2797070	Score	442
Exons	5537..5777		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76968	Strand	-
Start	6968	End	8590
Name	OJ991209_10.0119.C7.o1.tc	Method	TBLASTX:Cress
Start	6968	End	7720
GI	none	Score	134
Exons	6968..7108, 6994..7035, 7175..7264, 7382..7438, 7478..7633, 7634..7720		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76968	Strand	
Start	6968	End	8590
Name	OJ991209_10.0119.C7.o1.ts	Method	TBLASTX:Soybean
Start	7001	End	7543
GI	none	Score	79
Exons	7001..7066, 7070..7315, 7307..7441, 7466..7543		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76968	Strand	
Start	6968	End	8590
Name	OJ991209_10.0119.C7.o3.tm	Method	TBLASTX:Maize
Start	7328	End	7842
GI	none	Score	61
Exons	7328..7438, 7466..7837, 7618..7842		

Seq. No.	37503	Seq. ID	OJ991209_10.0119.C7
Gene No.	76968	Strand	
Start	6968	End	8590
Name	OJ991209_10.0119.C7.o2.ts	Method	TBLASTX:Soybean
Start	7544	End	8590
GI	none	Score	168
Exons	7544..7765, 7799..7843, 7898..7942, 8131..8262, 8171..8305, 8363..8590		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76969	Strand	+
Start	64	End	764
Name	OJ991209_10.0119.C8.o1.gs	Method	GENSCAN
Start	64	End	764
GI	none	Score	.46
Exons	64..203, 354..394, 742..764		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76970	Strand	+
Start	5844	End	6676
Name	OJ991209_10.0119.C8.o2.np	Method	AAT/NAP
Start	5844	End	6676
GI	6006375	Score	1395
Exons	5844..6676		

GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		
-------------	---	--	--

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76971	Strand	-
Start	2014	End	4890
Name	OJ991209_10.0119.C8.o2.gs	Method	GENSCAN
Start	2014	End	4890
GI	none	Score	.52
Exons	2014..2883, 2995..3423, 4253..4463, 4723..4890		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76971	Strand	-
Start	2014	End	4890
Name	OJ991209_10.0119.C8.o1.np	Method	AAT/NAP
Start	2026	End	3417

GI	6469032	Score	519
Exons	2026..2883, 2980..3417		
GI Descrip.	(AB035183) N-hydroxycinnamoyl/benzoyltransferase [Ipomoea batatas]		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76971	Strand	-
Start	2014	End	4890
Name	OJ991209_10.0119.C8.o1.ts	Method	TBLASTX:Soybean
Start	2098	End	3315
GI	none	Score	73
Exons	2098..2232, 2281..2568, 2747..2887, 2773..2889, 3040..3252, 3062..3253, 3259..3315		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76971	Strand	-
Start	2014	End	4890
Name	OJ991209_10.0119.C8.o2.tm	Method	TBLASTX:Maize
Start	2182	End	2646
GI	none	Score	151
Exons	2182..2646, 2184..2633, 2185..2634		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76971	Strand	-
Start	2014	End	4890
Name	OJ991209_10.0119.C8.o1.tm	Method	TBLASTX:Maize
Start	2647	End	3399
GI	none	Score	258
Exons	2647..2892, 2648..2902, 2984..3064, 2989..3105, 2990..3091, 2995..3138, 3096..3245, 3097..3252, 3104..3265, 3241..3399, 3242..3382		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76971	Strand	-
Start	2014	End	4890
Name	OJ991209_10.0119.C8.o1.tc	Method	TBLASTX:Cress
Start	2756	End	3384
GI	none	Score	81
Exons	2756..2890, 2773..2889, 3040..3258, 3062..3265, 3067..3267, 3271..3315, 3274..3309, 3310..3384		

Seq. No.	37504	Seq. ID	OJ991209_10.0119.C8
Gene No.	76972	Strand	-
Start	5946	End	6230
Name	OJ991209_10.0119.C8.o1.tw	Method	TBLASTX:Wheat
Start	5946	End	6230
GI	none	Score	205
Exons	5946..6230		

Seq. No.	37505	Seq. ID	OJ991209_10.0119.C9
Gene No.	76973	Strand	-
Start	87	End	142
Name	OJ991209_10.0119.C9.o1.gp	Method	AAT/GAP
Start	87	End	142
GI	16490_1.R1084	Score	83
Exons	87..142		
GI Descrip.	'4584525/emb CAB40756.1  7.0e-38 (AL049607) protein phosphatase		



2C-like protein [Arabidopsis thaliana]'

Seq. No.	37505	Seq. ID	OJ991209_10.0119.C9
Gene No.	76974	Strand	-
Start	895	End	1701
Name	OJ991209_10.0119.C9.o1.gs	Method	GENSCAN
Start	895	End	1506
GI	none	Score	.63
Exons	895..1506		

Seq. No.	37505	Seq. ID	OJ991209_10.0119.C9
Gene No.	76974	Strand	-
Start	895	End	1701
Name	OJ991209_10.0119.C9.o1.np	Method	AAT/NAP
Start	907	End	1701
GI	6469032	Score	194
Exons	907..1701		
GI Descrip.	(AB035183) N-hydroxycinnamoyl/benzoyltransferase [Ipomoea batatas]		

Seq. No.	37505	Seq. ID	OJ991209_10.0119.C9
Gene No.	76974	Strand	-
Start	895	End	1701
Name	OJ991209_10.0119.C9.o2.tm	Method	TBLASTX:Maize
Start	907	End	1062
GI	none	Score	70
Exons	907..1062, 913..975, 1010..1060		

Seq. No.	37505	Seq. ID	OJ991209_10.0119.C9
Gene No.	76974	Strand	-
Start	895	End	1701
Name	OJ991209_10.0119.C9.o1.ts	Method	TBLASTX:Soybean
Start	979	End	1679
GI	none	Score	88
Exons	979..1113, 1162..1449, 1521..1679, 1521..1679		

Seq. No.	37505	Seq. ID	OJ991209_10.0119.C9
Gene No.	76974	Strand	-
Start	895	End	1701
Name	OJ991209_10.0119.C9.o1.tm	Method	TBLASTX:Maize
Start	1063	End	1533
GI	none	Score	148
Exons	1063..1533, 1064..1312, 1066..1524		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76975	Strand	+
Start	7918	End	8584
Name	OJ991209_10.0119.C10.o4.gs	Method	GENSCAN
Start	7918	End	8584
GI	none	Score	.84
Exons	7918..7923, 7999..8091, 8372..8468, 8532..8584		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76976	Strand	+
Start	9850	End	10041
Name	OJ991209_10.0119.C10.o5.gs	Method	GENSCAN
Start	9850	End	10041

GI	none	Score	.96
Exons	9850..10041		
Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76977	Strand	+
Start	10640	End	14194
Name	OJ991209_10.0119.C10.o6.gs	Method	GENSCAN
Start	10640	End	14194
GI	none	Score	.99
Exons	10640..14194		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76977	Strand	+
Start	10640	End	14194
Name	OJ991209_10.0119.C10.o4.np	Method	AAT/NAP
Start	11237	End	12258
GI	6649097	Score	877
Exons	11237..12083, 12157..12258		
GI Descrip.	(AF146275) resistance gene analog PIC27 [Oryza sativa]		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76977	Strand	+
Start	10640	End	14194
Name	OJ991209_10.0119.C10.o6.np	Method	AAT/NAP
Start	12231	End	14158
GI	6721163	Score	151
Exons	12231..12667, 13868..14158		
GI Descrip.	(AC016829) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76978	Strand	-
Start	92	End	1250
Name	OJ991209_10.0119.C10.o1.gs	Method	GENSCAN
Start	92	End	1250
GI	none	Score	.79
Exons	92..226, 1137..1250		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76979	Strand	-
Start	1156	End	1278
Name	OJ991209_10.0119.C10.o1.np	Method	AAT/NAP
Start	1156	End	1278
GI	5922630	Score	171
Exons	1156..1278		
GI Descrip.	(AP000492) EST C98748(E3038) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016863 dbj BAA85206.1  (AP000570) EST C98748(E3038) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76980	Strand	-
Start	3815	End	4758
Name	OJ991209_10.0119.C10.o2.gs	Method	GENSCAN
Start	3815	End	4758
GI	none	Score	.5

Exons 3815..3906, 4063..4153, 4547..4620, 4647..4758

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76981	Strand	-
Start	5579	End	7032
Name	OJ991209_10.0119.C10.o2.np	Method	AAT/NAP
Start	5467	End	5701
GI	4680492	Score	371
Exons	5467..5701		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76981	Strand	-
Start	5579	End	7032
Name	OJ991209_10.0119.C10.o3.gs	Method	GENSCAN
Start	5579	End	6613
GI	none	Score	.83
Exons	5579..5742, 6124..6268, 6581..6613		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76981	Strand	-
Start	5579	End	7032
Name	OJ991209_10.0119.C10.o3.np	Method	AAT/NAP
Start	6422	End	7032
GI	2239083	Score	66
Exons	6422..6700, 6909..7032		
GI Descrip.	(Z84383) anthranilate N-hydroxycinnamoyl/benzoyltransferase [Dianthus caryophyllus] gi 2239087 emb CAB06429  (Z84385) anthranilate N-hydroxycinnamoyl/benzoyltransferase [Dianthus caryophyllus]		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76982	Strand	-
Start	9760	End	10037
Name	OJ991209_10.0119.C10.o1.gp	Method	AAT/GAP
Start	9760	End	10037
GI	4968585	Score	516
Exons	9760..10037		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76983	Strand	-
Start	11228	End	12832
Name	OJ991209_10.0119.C10.o2.ts	Method	TBLASTX:Soybean
Start	11228	End	11674
GI	none	Score	76
Exons	11228..11293, 11288..11560, 11531..11674		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76983	Strand	-
Start	11228	End	12832
Name	OJ991209_10.0119.C10.o1.tc	Method	TBLASTX:Cress
Start	11423	End	12046
GI	none	Score	64
Exons	11423..11485, 11549..11797, 11894..12046		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76983	Strand	-

Start	11228	End	12832
Name	OJ991209_10.0119.C10.o1.tm	Method	TBLASTX:Maize
Start	11689	End	12066
GI	none	Score	286
Exons	11689..11760, 11690..12064, 11824..12066		

Seq. No.	37506	Seq. ID	OJ991209_10.0119.C10
Gene No.	76983	Strand	
Start	11228	End	12832
Name	OJ991209_10.0119.C10.o1.ts	Method	TBLASTX:Soybean
Start	11711	End	12832
GI	none	Score	222
Exons	11711..11989, 12013..12066, 12014..12067, 12130..12228, 12131..12301, 12350..12457, 12458..12586, 12608..12832		

Seq. No.	37507	Seq. ID	OJ991209_10.0119.C11
Gene No.	76984	Strand	+
Start	1564	End	2194
Name	OJ991209_10.0119.C11.o1.gs	Method	GENSCAN
Start	1564	End	2164
GI	none	Score	.63
Exons	1564..2164		

Seq. No.	37507	Seq. ID	OJ991209_10.0119.C11
Gene No.	76984	Strand	+
Start	1564	End	2194
Name	OJ991209_10.0119.C11.o1.np	Method	AAT/NAP
Start	1564	End	2194
GI	2852684	Score	214
Exons	1564..2194		
GI Descrip.	(AF017751) resistance protein candidate [Lactuca sativa]		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o1.np	Method	AAT/NAP
Start	1	End	721
GI	6649097	Score	1254
Exons	1..721		
GI Descrip.	(AF146275) resistance gene analog PIC27 [Oryza sativa]		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o2.np	Method	AAT/NAP
Start	1	End	2690
GI	6598711	Score	179
Exons	1..67, 1019..1242, 2380..2690		
GI Descrip.	(AC007197) putative disease resistance protein [Arabidopsis thaliana]		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o1.tc	Method	TBLASTX:Cress
Start	2	End	2554
GI	none	Score	41

Exons 2..28, 137..346, 428..565, 2465..2554

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o1.tm	Method	TBLASTX:Maize
Start	137	End	600
GI	none	Score	49
Exons	137..211, 239..364, 374..595, 439..600		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o1.gs	Method	GENSCAN
Start	146	End	2711
GI	none	Score	.67
Exons	146..836, 1272..1496, 1611..1814, 2052..2218, 2441..2711		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o1.ts	Method	TBLASTX:Soybean
Start	239	End	550
GI	none	Score	109
Exons	239..364, 241..345, 383..550, 415..519		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o2.ts	Method	TBLASTX:Soybean
Start	1000	End	2599
GI	none	Score	122
Exons	1000..1101, 1004..1174, 1019..1102, 1124..1246, 1205..1423, 2456..2599		

Seq. No.	37508	Seq. ID	OJ991209_10.0119.C12
Gene No.	76985	Strand	+
Start	1	End	2711
Name	OJ991209_10.0119.C12.o1.tw	Method	TBLASTX:Wheat
Start	2147	End	2498
GI	none	Score	160
Exons	2147..2365, 2147..2314, 2152..2349, 2164..2370, 2244..2369, 2410..2496, 2423..2497, 2460..2498		

Seq. No.	37509	Seq. ID	OJ991209_10.0119.C13
Gene No.	76986	Strand	+
Start	99	End	5555
Name	OJ991209_10.0119.C13.o1.gs	Method	GENSCAN
Start	99	End	5555
GI	none	Score	.75
Exons	99..215, 4121..4318, 4523..4598, 4685..4805, 4968..5555		

Seq. No.	37509	Seq. ID	OJ991209_10.0119.C13
Gene No.	76987	Strand	+
Start	5702	End	6168
Name	OJ991209_10.0119.C13.o1.gp	Method	AAT/GAP
Start	5702	End	6168

GI	none	Score	926
Exons	5702..6168		
Seq. No.	37509	Seq. ID	OJ991209_10.0119.C13
Gene No.	76988	Strand	-
Start	6076	End	8188
Name	OJ991209_10.0119.C13.o2.gs	Method	GENSCAN
Start	6076	End	8021
GI	none	Score	.81
Exons	6076..6246, 6418..6558, 7138..7185, 7766..7865, 7942..8021		
Seq. No.	37509	Seq. ID	OJ991209_10.0119.C13
Gene No.	76988	Strand	-
Start	6076	End	8188
Name	OJ991209_10.0119.C13.o1.np	Method	AAT/NAP
Start	6082	End	8188
GI	3212854	Score	246
Exons	6082..6578, 6963..7023, 7766..7865, 7942..8021, 8101..8188		
GI Descrip.	(AC004005) unknown protein [Arabidopsis thaliana]		
Seq. No.	37509	Seq. ID	OJ991209_10.0119.C13
Gene No.	76988	Strand	-
Start	6076	End	8188
Name	OJ991209_10.0119.C13.o1.tm	Method	TBLASTX:Maize
Start	6086	End	6559
GI	none	Score	79
Exons	6086..6139, 6088..6165, 6089..6166, 6148..6180, 6160..6246, 6197..6217, 6236..6292, 6237..6293, 6278..6331, 6294..6335, 6417..6545, 6418..6510, 6527..6559		
Seq. No.	37509	Seq. ID	OJ991209_10.0119.C13
Gene No.	76988	Strand	-
Start	6076	End	8188
Name	OJ991209_10.0119.C13.o2.gp	Method	AAT/GAP
Start	6524	End	8146
GI	uC-osflcyp112d02b1	Score	624
Exons	6524..6558, 6955..7023, 7138..7185, 7766..7865, 7942..8021, 8101..8146		
GI Descrip.	'6002641/gb AAF00075.1 AF094825_1 3.0e-19 (AF094825) RNA-binding protein homolog [Brassica napus]'		
Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76989	Strand	+
Start	5170	End	6287
Name	OJ991209_10.0119.C14.o2.gs	Method	GENSCAN
Start	5170	End	6287
GI	none	Score	.62
Exons	5170..5285, 5299..5354, 5544..5636, 5887..6013, 6248..6287		
Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76990	Strand	-
Start	1	End	4356
Name	OJ991209_10.0119.C14.o1.np	Method	AAT/NAP
Start	1	End	2913
GI	3212854	Score	163
Exons	1..21, 412..506, 1162..1246, 2303..2913		
GI Descrip.	(AC004005) unknown protein [Arabidopsis thaliana]		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76990	Strand	-
Start	1	End	4356
Name	OJ991209_10.0119.C14.o1.gs	Method	GENSCAN
Start	263	End	4356
GI	none	Score	.69
Exons	263..280, 412..506, 1162..1243, 2414..2524, 2578..2746, 2908..3019, 3172..3325, 4315..4356		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76990	Strand	-
Start	1	End	4356
Name	OJ991209_10.0119.C14.o1.gp	Method	AAT/GAP
Start	380	End	2756
GI	uC-osflcyp174c01b1	Score	975
Exons	380..506, 1162..1243, 2414..2756		
GI Descrip.	'3212854 7.0e-20 (AC004005) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o1.tm	Method	TBLASTX:Maize
Start	6381	End	9255
GI	none	Score	52
Exons	6381..6458, 6383..6472, 6479..6838, 6483..6839, 6838..6963, 6840..7178, 6843..7250, 7018..7233, 7040..7249, 7568..8011, 7583..7999, 7595..7897, 7596..8012, 7598..7933, 7775..8014, 7874..7966, 8823..9197, 8824..9123, 9123..9227, 9124..9255		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o1.ts	Method	TBLASTX:Soybean
Start	6386	End	6785
GI	none	Score	51
Exons	6386..6469, 6387..6440, 6455..6754, 6483..6785, 6627..6785		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o3.gs	Method	GENSCAN
Start	6386	End	12263
GI	none	Score	.64
Exons	6386..7249, 7592..8001, 8822..9240, 9375..9434, 11411..11586, 12210..12263		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o2.np	Method	AAT/NAP
Start	6389	End	10788
GI	4887754	Score	1563
Exons	6389..7249, 7592..8001, 8822..9221, 10750..10788		
GI Descrip.	(AC006533) ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o1.tw	Method	TBLASTX:Wheat
Start	6431	End	6967
GI	none	Score	132
Exons	6431..6751, 6534..6824, 6869..6967, 6870..6962		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o1.tc	Method	TBLASTX:Cress
Start	6473	End	6803
GI	none	Score	148
Exons	6473..6754, 6498..6803		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o3.ts	Method	TBLASTX:Soybean
Start	6926	End	7252
GI	none	Score	213
Exons	6926..6979, 6927..7238, 6927..7151, 7040..7252		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o2.ts	Method	TBLASTX:Soybean
Start	7565	End	8942
GI	none	Score	281
Exons	7565..7933, 7574..8011, 7605..8012, 7710..8012, 8823..8942		

Seq. No.	37510	Seq. ID	OJ991209_10.0119.C14
Gene No.	76991	Strand	-
Start	6386	End	12263
Name	OJ991209_10.0119.C14.o2.tc	Method	TBLASTX:Cress
Start	7589	End	8867
GI	none	Score	150
Exons	7589..7783, 7613..7897, 7715..7999, 7716..8000, 7817..8011, 8823..8867		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76992	Strand	+
Start	4972	End	5352
Name	OJ991209_10.0119.C15.o2.gs	Method	GENSCAN
Start	4972	End	5352
GI	none	Score	.6
Exons	4972..5352		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76993	Strand	+
Start	7561	End	8053
Name	OJ991209_10.0119.C15.o1.gp	Method	AAT/GAP
Start	7561	End	8053
GI	none	Score	931
Exons	7561..8053		



Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76994	Strand	+
Start	14737	End	15414
Name	OJ991209_10.0119.C15.o4.gs	Method	GENSCAN
Start	14737	End	15414
GI	none	Score	.81
Exons	14737..15414		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76995	Strand	+
Start	24939	End	29548
Name	OJ991209_10.0119.C15.o6.gs	Method	GENSCAN
Start	24939	End	29548
GI	none	Score	.82
Exons	24939..25077, 25104..25191, 25317..25434, 25936..26071, 26196..26241, 26317..26424, 26617..26716, 26810..26955, 27050..27141, 27255..27349, 27673..27769, 27859..28002, 28223..28440, 29149..29275, 29361..29548		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76995	Strand	+
Start	24939	End	29548
Name	OJ991209_10.0119.C15.o6.gp	Method	AAT/GAP
Start	25124	End	26380
GI	none	Score	589
Exons	25124..25146, 25315..25434, 25936..26071, 26202..26241, 26317..26380		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76995	Strand	+
Start	24939	End	29548
Name	OJ991209_10.0119.C15.o4.np	Method	AAT/NAP
Start	25942	End	28646
GI	3212871	Score	1488
Exons	25942..26101, 26208..26241, 26317..26424, 26617..26716, 26810..26955, 27050..27141, 27255..27349, 27673..27769, 27859..28002, 28223..28440, 28539..28646		
GI Descrip.	(AC004005) putative methionine aminopeptidase [Arabidopsis thaliana]		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76996	Strand	+
Start	30165	End	30369
Name	OJ991209_10.0119.C15.o5.np	Method	AAT/NAP
Start	30165	End	30369
GI	3122724	Score	.210
Exons	30165..30369		
GI Descrip.	60S RIBOSOMAL PROTEIN L38 gi 2289009 gb AAB64338.1  (AC002335) 60S ribosomal protein L38 [Arabidopsis thaliana]		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76997	Strand	-
Start	379	End	2875
Name	OJ991209_10.0119.C15.o1.np	Method	AAT/NAP
Start	379	End	1398
GI	6815099	Score	82
Exons	379..489, 1200..1398		

GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76997	Strand	-
Start	379	End	2875
Name	OJ991209_10.0119.C15.o1.gs	Method	GENSCAN
Start	1270	End	2875
GI	none	Score	.43
Exons	1270..1404, 2747..2875		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76998	Strand	-
Start	7988	End	10215
Name	OJ991209_10.0119.C15.o3.gs	Method	GENSCAN
Start	7988	End	10162
GI	none	Score	.84
Exons	7988..8242, 8488..8552, 8730..8946, 9082..9148, 9523..9682, 9775..9844, 10085..10162		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76998	Strand	-
Start	7988	End	10215
Name	OJ991209_10.0119.C15.o2.gp	Method	AAT/GAP
Start	9215	End	10215
GI	none	Score	754
Exons	9215..9276, 9523..9682, 9775..9844, 10085..10215		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76999	Strand	-
Start	16324	End	24680
Name	OJ991209_10.0119.C15.o5.gs	Method	GENSCAN
Start	16324	End	24680
GI	none	Score	.48
Exons	16324..16455, 17460..17528, 17848..18015, 18183..18814, 19258..20399, 20529..22039, 22167..22354, 22522..22678, 22964..23015, 23199..23404, 23899..24001, 24115..24252, 24391..24680		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76999	Strand	-
Start	16324	End	24680
Name	OJ991209_10.0119.C15.o2.np	Method	AAT/NAP
Start	20741	End	21637
GI	6649097	Score	971
Exons	20741..21637		
GI Descrip.	(AF146275). resistance gene analog PIC27 [Oryza sativa]		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76999	Strand	-
Start	16324	End	24680
Name	OJ991209_10.0119.C15.o3.gp	Method	AAT/GAP
Start	21915	End	22379
GI	701907	Score	466
Exons	21915..22057, 22176..22379		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76999	Strand	-

Start	16324	End	24680
Name	OJ991209_10.0119.C15.o4.gp	Method	AAT/GAP
Start	23035	End	24187
GI	1999_1.R1084	Score	999
Exons	23035..23404, 23899..24001, 24115..24187		
GI Descrip.	'133019/sp P11874 RL7_DICDI 1.0e-33 60S RIBOSOMAL PROTEIN L7 >gi_71122_pir_R5D07_ribosomal protein L7 - slime mold (Dictyostelium discoideum) >gi_7357_emb_CAA33035_(X14909) ribosomal protein L7 (AA 1 - 246) [Dictyostelium discoideum]'		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76999	Strand	-
Start	16324	End	24680
Name	OJ991209_10.0119.C15.o3.np	Method	AAT/NAP
Start	23192	End	24677
GI	6503287	Score	518
Exons	23192..23404, 23899..24001, 24115..24252, 24391..24677		
GI Descrip.	(AC011713) Strong similarity to gi 445613 ribosomal protein L7 from Solanum tuberosum. [Arabidopsis thaliana]		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	76999	Strand	-
Start	16324	End	24680
Name	OJ991209_10.0119.C15.o5.gp	Method	AAT/GAP
Start	24391	End	24612
GI	none	Score	421
Exons	24391..24612		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o2.tm	Method	TBLASTX:Maize
Start	7976	End	17905
GI	none	Score	78
Exons	7976..8245, 7980..8048, 7981..8121, 7984..8247, 7988..8245, 8155..8253, 8485..8562, 8486..8563, 8486..8563, 8720..8947, 8722..8946, 8726..8947, 8731..8949, 8766..8957, 9186..9275, 9195..9299, 9196..9282, 9487..9645, 9518..9682, 9519..9692, 9522..9689, 9774..9851, 9776..9847, 9779..9856, 9781..9852, 10085..10162, 10086..10163, 17116..17163, 17118..17165, 17122..17181, 17179..17262, 17189..17266, 17192..17266, 17453..17488, 17478..17531, 17482..17535, 17843..17905, 17848..17904		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o3.tc	Method	TBLASTX:Cress
Start	7988	End	17531
GI	none	Score	35
Exons	7988..8245, 7989..8036, 8068..8127, 8118..8240, 8485..8562, 8495..8554, 8722..8946, 8728..8799, 8861..8947, 9195..9254, 9522..9683, 9541..9645, 9782..9847, 9786..9851, 17118..17171, 17137..17163, 17185..17262, 17186..17263, 17478..17531		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-

Start	30227	End	33111
Name	OJ991209_10.0119.C15.o5.ts	Method	TBLASTX:Soybean
Start	9249	End	17531
GI	none	Score	113
Exons	9249..9299, 9522..9683, 9529..9645, 9782..9847, 9786..9851, 17118..17165, 17125..17181, 17173..17262, 17189..17263, 17478..17531		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o3.tm	Method	TBLASTX:Maize
Start	16089	End	24407
GI	none	Score	68
Exons	16089..16163, 16099..16167, 16159..16188, 16164..16190, 16230..16295, 16276..16296, 16296..16340, 16298..16339, 16312..16416, 16313..16438, 16343..16450, 16418..16456, 16420..16464, 16420..16461, 23040..23114, 23050..23127, 23110..23142, 23118..23138, 23138..23182, 23172..23405, 23183..23410, 23190..23405, 23883..24002, 23893..24006, 23897..24013, 23900..24001, 24094..24246, 24100..24246, 24114..24260, 24114..24260, 24384..24407		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o3.ts	Method	TBLASTX:Soybean
Start	16236	End	24644
GI	none	Score	132
Exons	16236..16295, 16315..16416, 16420..16458, 23187..23402, 23189..23407, 23893..24006, 23951..23998, 24094..24261, 24114..24242, 24450..24644		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o6.tc	Method	TBLASTX:Cress
Start	16236	End	24644
GI	none	Score	153
Exons	16236..16295, 16315..16416, 16420..16461, 23181..23408, 23189..23410, 23893..24006, 24094..24261, 24114..24242, 24450..24644		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o4.tm	Method	TBLASTX:Maize
Start	20810	End	21184
GI	none	Score	246
Exons	20810..21184		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o6.ts	Method	TBLASTX:Soybean
Start	20879	End	21103
GI	4397495	Score	199

Exons 20879..21103  
GI Descrip. 4234955 2.0e-22 (AF098971) NBS-LRR-like protein cD8 [Phaseolus vulgaris]

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o4.tc	Method	TBLASTX:Cress
Start	20927	End	21679
GI	none	Score	68
Exons	20927..21013, 21056..21184, 21209..21265, 21383..21466, 21509..21679, 21600..21671		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o2.ts	Method	TBLASTX:Soybean
Start	21104	End	21647
GI	none	Score	63
Exons	21104..21184, 21197..21340, 21353..21601, 21581..21646, 21591..21647		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o7.tm	Method	TBLASTX:Maize
Start	21293	End	21658
GI	none	Score	133
Exons	21293..21472, 21509..21658		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o1.tw	Method	TBLASTX:Wheat
Start	23354	End	24299
GI	none	Score	83
Exons	23354..23410, 23883..24008, 23893..24006, 23897..24013, 23903..24013, 24094..24252, 24105..24299, 24114..24242		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o5.tm	Method	TBLASTX:Maize
Start	24408	End	24711
GI	none	Score	197
Exons	24408..24533, 24409..24711, 24588..24710		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o3.tw	Method	TBLASTX:Wheat
Start	24489	End	24680
GI	none	Score	158
Exons	24489..24680, 24490..24675		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-

Start	30227	End	33111
Name	OJ991209_10.0119.C15.o1.tc	Method	TBLASTX:Cress
Start	26314	End	27351
GI	none	Score	155
Exons	26314..26424, 26315..26425, 26317..26433, 26618..26719, 26624..26719, 26799..26870, 26809..26955, 26810..26956, 26904..26966, 26905..26967, 27050..27157, 27051..27158, 27057..27164, 27253..27351, 27254..27349		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o1.ts	Method	TBLASTX:Soybean
Start	26314	End	27355
GI	none	Score	151
Exons	26314..26436, 26315..26425, 26618..26719, 26618..26719, 26794..26901, 26810..26878, 26878..26955, 26879..26956, 27050..27157, 27051..27158, 27051..27158, 27253..27351, 27254..27349, 27257..27355		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o1.tm	Method	TBLASTX:Maize
Start	26317	End	28655
GI	none	Score	187
Exons	26317..26436, 26318..26425, 26618..26719, 26624..26719, 26809..26955, 26810..26956, 27050..27142, 27051..27158, 27051..27167, 27052..27159, 27253..27351, 27254..27349, 27257..27355, 27291..27356, 27537..27605, 27672..27767, 27672..27767, 27673..27768, 27816..27998, 27857..28003, 27858..28004, 27862..28014, 28215..28436, 28217..28432, 28222..28440, 28222..28440, 28536..28655, 28538..28651		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o5.tc	Method	TBLASTX:Cress
Start	27738	End	28277
GI	none	Score	50
Exons	27738..27767, 27739..27768, 27857..28003, 27858..28004, 28215..28277, 28222..28275		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o4.ts	Method	TBLASTX:Soybean
Start	27896	End	28380
GI	none	Score	101
Exons	27896..27997, 27900..28004, 27900..27992, 27902..28003, 28215..28316, 28222..28317, 28311..28379, 28315..28380		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o2.tc	Method	TBLASTX:Cress
Start	28278	End	28650

GI	none	Score	204
Exons	28278..28454, 28282..28446, 28302..28454, 28524..28649, 28537..28650, 28538..28648		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o2.tw	Method	TBLASTX:Wheat
Start	30167	End	31310
GI	none	Score	67
Exons	30167..30205, 30168..30218, 30212..30310, 30213..30308, 30214..30345, 30215..30310, 30310..30354, 31191..31310, 31237..31290, 31238..31288		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o6.tm	Method	TBLASTX:Maize
Start	30167	End	31311
GI	none	Score	67
Exons	30167..30214, 30168..30218, 30210..30308, 30212..30319, 30215..30310, 30303..30353, 30310..30354, 30311..30364, 31237..31311, 31238..31288		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o7.ts	Method	TBLASTX:Soybean
Start	30167	End	30354
GI	none	Score	67
Exons	30167..30214, 30168..30218, 30210..30299, 30212..30310, 30215..30313, 30310..30354, 30312..30353		

Seq. No.	37511	Seq. ID	OJ991209_10.0119.C15
Gene No.	77000	Strand	-
Start	30227	End	33111
Name	OJ991209_10.0119.C15.o7.gs	Method	GENSCAN
Start	30227	End	33111
GI	none	Score	.71
Exons	30227..30310, 31284..31412, 31716..31880, 32944..33111		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77001	Strand	+
Start	6	End	679
Name	OJ991209_10.0119.C16.o1.gs	Method	GENSCAN
Start	6	End	679
GI	none	Score	.61
Exons	6..86, 605..679		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77002	Strand	+
Start	6807	End	15431
Name	OJ991209_10.0119.C16.o4.gs	Method	GENSCAN
Start	6807	End	15407
GI	none	Score	.5
Exons	6807..6930, 9082..9171, 9548..9723, 10985..11899, 12117..12389, 12749..12840, 14519..15407		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77002	Strand	+
Start	6807	End	15431
Name	OJ991209_10.0119.C16.o1.np	Method	AAT/NAP
Start	10952	End	15431
GI	3063465	Score	1128
Exons	10952..11899, 12117..12389, 12749..12840, 14519..15207, 15271..15431		
GI Descrip.	(AC003981) F22013.27 [Arabidopsis thaliana]		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77003	Strand	+
Start	17511	End	20232
Name	OJ991209_10.0119.C16.o2.np	Method	AAT/NAP
Start	17511	End	20220
GI	6691716	Score	2373
Exons	17511..18428, 18498..18746, 18823..19002, 19080..19267, 19342..19443, 19593..19707, 19781..20220		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77003	Strand	+
Start	17511	End	20232
Name	OJ991209_10.0119.C16.o5.gs	Method	GENSCAN
Start	17511	End	20232
GI	none	Score	.95
Exons	17511..18395, 18452..18545, 18661..19002, 19080..19267, 19342..19531, 19603..19707, 19781..20232		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77004	Strand	+
Start	25740	End	26519
Name	OJ991209_10.0119.C16.o1.gp	Method	AAT/GAP
Start	25740	End	26519
GI	none	Score	1400
Exons	25740..26519		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77005	Strand	+
Start	33465	End	33728
Name	OJ991209_10.0119.C16.o8.gs	Method	GENSCAN
Start	33465	End	33728
GI	none	Score	.61
Exons	33465..33510, 33552..33673, 33678..33728		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77006	Strand	+
Start	34855	End	39229
Name	OJ991209_10.0119.C16.o9.gs	Method	GENSCAN
Start	34855	End	39229
GI	none	Score	.52
Exons	34855..35285, 35613..35729, 35842..35950, 36020..36208, 36294..36516, 36589..36707, 36788..36964, 37015..37076, 37181..37442, 37535..37642, 37707..37790, 37906..37928,		



37986..38368, 38432..38664, 39053..39229.

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77006	Strand	+
Start	34855	End	39229
Name	OJ991209_10.0119.C16.o6.np	Method	AAT/NAP
Start	34916	End	38382
GI	5441880	Score	1015
Exons	34916..34941, 35627..35766, 35875..36208, 36788..37076, 37181..37442, 37515..37759, 38173..38382		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77006	Strand	+
Start	34855	End	39229
Name	OJ991209_10.0119.C16.o4.gp	Method	AAT/GAP
Start	35881	End	38113
GI	LIB3433-020-P1-K1-A6	Score	698
Exons	35881..35924, 37736..38113		
GI Descrip.	'5670155/gb AF161269.1 AF161269.2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77007	Strand	-
Start	2881	End	3411
Name	OJ991209_10.0119.C16.o2.gs	Method	GENSCAN
Start	2881	End	3411
GI	none	Score	1
Exons	2881..3411		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77008	Strand	-
Start	4048	End	4923
Name	OJ991209_10.0119.C16.o3.gs	Method	GENSCAN
Start	4048	End	4923
GI	none	Score	.73
Exons	4048..4505, 4545..4923		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77009	Strand	-
Start	20543	End	28175
Name	OJ991209_10.0119.C16.o6.gs	Method	GENSCAN
Start	20543	End	28139
GI	none	Score	.73
Exons	20543..20553, 20682..22629, 22747..23710, 23807..25206, 26293..26367, 27113..27161, 27286..27335, 27421..27504, 27726..28139		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77009	Strand	-
Start	20543	End	28175
Name	OJ991209_10.0119.C16.o3.np	Method	AAT/NAP
Start	20665	End	25322
GI	5922631	Score	5660
Exons	20665..23192, 23799..24725, 24852..25003, 25046..25322		

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa]  
gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77009	Strand	-
Start	20543	End	28175
Name	OJ991209_10.0119.C16.o4.np	Method	AAT/NAP
Start	25998	End	27860
GI	2289010	Score	519
Exons	25998..26114, 26293..26367, 27113..27161, 27286..27335, 27421..27504, 27726..27860		

GI Descrip. (AC002335) putative FKBP type peptidyl-prolyl cis-trans isomerase [Arabidopsis thaliana]

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77009	Strand	-
Start	20543	End	28175
Name	OJ991209_10.0119.C16.o2.gp	Method	AAT/GAP
Start	26753	End	27341
GI	4001_3.R1084	Score	848
Exons	26753..27161, 27286..27341		

GI Descrip. '2289010 1.0e-10 (AC002335) FKBP type peptidyl-prolyl cis-trans isomerase isolog [Arabidopsis thaliana]'

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77009	Strand	-
Start	20543	End	28175
Name	OJ991209_10.0119.C16.o3.gp	Method	AAT/GAP
Start	27427	End	28175
GI	25062_1.R1084	Score	985
Exons	27427..27504, 27726..28175		

GI Descrip. '2289010 1.0e-17 (AC002335) FKBP type peptidyl-prolyl cis-trans isomerase isolog [Arabidopsis thaliana]'

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o6.tm	Method	TBLASTX:Maize
Start	10939	End	11131
GI	none	Score	139
Exons	10939..11118, 10939..11127, 10943..11131		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o1.tc	Method	TBLASTX:Cress
Start	10948	End	11320
GI	none	Score	538
Exons	10948..11319, 10952..11320		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-

Start	30026	End	34620
Name	OJ991209_10.0119.C16.o4.ts	Method	TBLASTX:Soybean
Start	10951	End	11212
GI	none	Score	126
Exons	10951..11067, 10952..11068, 11081..11212		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o2.tm	Method	TBLASTX:Maize
Start	11456	End	11899
GI	none	Score	85
Exons	11456..11533, 11458..11502, 11515..11697, 11516..11698, 11687..11749, 11695..11748, 11728..11892, 11729..11899, 11729..11899		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o8.tm	Method	TBLASTX:Maize
Start	12116	End	14584
GI	none	Score	52
Exons	12116..12169, 12117..12221, 12177..12389, 12188..12391, 12263..12391, 12746..12835, 12748..12846, 14516..14584, 14523..14582		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o8.tw	Method	TBLASTX:Wheat
Start	17631	End	17921
GI	none	Score	214
Exons	17631..17921		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o7.tm	Method	TBLASTX:Maize
Start	20696	End	20943
GI	none	Score	93
Exons	20696..20782, 20698..20781, 20761..20943, 20762..20887		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o3.tw	Method	TBLASTX:Wheat
Start	20698	End	21255
GI	none	Score	95
Exons	20698..20772, 20764..21255, 20966..21094, 21076..21105, 21146..21235		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o10.tm	Method	TBLASTX:Maize
Start	21025	End	21298
GI	none	Score	58

Exons	21025..21111, 21121..21204, 21134..21208, 21199..21297, 21200..21298		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o4.tw	Method	TBLASTX:Wheat
Start	21368	End	21759
GI	none	Score	56
Exons	21368..21415, 21370..21561, 21370..21756, 21446..21748, 21598..21759		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o1.tm	Method	TBLASTX:Maize
Start	21439	End	21762
GI	none	Score	251
Exons	21439..21762, 21440..21742		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o12.tw	Method	TBLASTX:Wheat
Start	21760	End	22059
GI	none	Score	124
Exons	21760..21858, 21925..22059		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o6.tw	Method	TBLASTX:Wheat
Start	22075	End	22497
GI	none	Score	232
Exons	22075..22497, 22151..22492		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o3.ts	Method	TBLASTX:Soybean
Start	22118	End	22506
GI	none	Score	121
Exons	22118..22366, 22120..22362, 22402..22506, 22409..22498		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o11.tm	Method	TBLASTX:Maize
Start	22171	End	22444
GI	none	Score	53
Exons	22171..22269, 22172..22237, 22273..22443, 22274..22444		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o5.tw	Method	TBLASTX:Wheat
Start	22534	End	22963

GI	none	Score	98
Exons	22534..22962, 22739..22963		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o4.tm	Method	TBLASTX:Maize
Start	22621	End	23065
GI	none	Score	140
Exons	22621..22647, 22645..22788, 22807..23064, 22810..23064, 22811..23065		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o2.ts	Method	TBLASTX:Soybean
Start	22732	End	23133
GI	none	Score	44
Exons	22732..23133, 22766..22936, 22973..23116		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o2.tw	Method	TBLASTX:Wheat
Start	23008	End	34620
GI	none	Score	221
Exons	23008..23427, 23009..23425, 34501..34620		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o3.tm	Method	TBLASTX:Maize
Start	23296	End	23653
GI	none	Score	197
Exons	23296..23652, 23306..23653		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o5.ts	Method	TBLASTX:Soybean
Start	23377	End	23742
GI	none	Score	140
Exons	23377..23511, 23518..23742		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o7.tw	Method	TBLASTX:Wheat
Start	23427	End	23661
GI	none	Score	120
Exons	23427..23591, 23428..23628, 23428..23661, 23429..23629		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o1.tw	Method	TBLASTX:Wheat
Start	23662	End	24459

GI	none	Score	117
Exons	23662..23955, 23666..23827, 24002..24238, 24004..24234, 24283..24459		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o12.tm	Method	TBLASTX:Maize
Start	23974	End	24151
GI	none	Score	106
Exons	23974..24150, 24005..24151		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o11.tw	Method	TBLASTX:Wheat
Start	24949	End	25269
GI	none	Score	184
Exons	24949..25269		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o9.tm	Method	TBLASTX:Maize
Start	25962	End	27167
GI	none	Score	140
Exons	25962..26114, 25995..26108, 26287..26367, 26289..26369, 26294..26368, 26297..26380, 26299..26370, 27110..27163, 27111..27167, 27111..27167		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o10.tw	Method	TBLASTX:Wheat
Start	26004	End	26385
GI	none	Score	116
Exons	26004..26117, 26004..26117, 26287..26367, 26297..26368, 26300..26380, 26301..26384, 26302..26385		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o3.tc	Method	TBLASTX:Cress
Start	26004	End	27779
GI	none	Score	81
Exons	26004..26027, 26031..26114, 26287..26367, 26294..26368, 27110..27163, 27111..27164, 27277..27309, 27288..27335, 27411..27497, 27416..27505, 27418..27513, 27723..27779		
Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o5.np	Method	AAT/NAP
Start	30026	End	32671
GI	3033389	Score	1197
Exons	30026..30393, 30453..32671		
GI Descrip.	(AC004238) putative disease resistance protein [Arabidopsis		

thaliana]

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o2.tc	Method	TBLASTX:Cress
Start	30041	End	32482
GI	none	Score	52
Exons	30041..30136, 30062..30322, 30063..30173, 30074..30388, 30125..30388, 30125..30373, 30125..30319, 30125..30379, 30188..30388, 30188..30388, 30188..30388, 30188..30388, 30188..30400, 30194..30388, 30197..30391, 30197..30388, 30198..30377, 30198..30281, 30198..30374, 30198..30380, 30200..30388, 30333..30389, 30509..30655, 30509..30643, 30518..30658, 30518..30658, 30518..30658, 30539..30655, 30539..30655, 30539..30655, 30542..30658, 30542..30655, 30542..30655, 30557..30658, 30692..30826, 30692..30889, 30695..31048, 30698..31033, 30707..31042, 30707..30922, 30710..31048, 30821..31057, 30830..31048, 30923..31108, 30995..31114, 31049..31114, 31058..31117, 31061..31114, 31066..31101, 31091..31234, 31106..31246, 31124..31261, 31124..31237, 31124..31252, 31127..31237, 31475..31684, 31487..31693, 31493..31693, 31496..31684, 31496..31675, 31496..31675, 31496..31693, 31502..31750, 31535..31660, 31703..31996, 31718..31987, 31718..31831, 31724..31831, 31724..31876, 31724..31987, 31730..31990, 31730..31876, 31790..31876, 31817..31990, 32231..32323, 32246..32323, 32312..32452, 32330..32482		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o5.tm	Method	TBLASTX:Maize
Start	30041	End	31985
GI	none	Score	97
Exons	30041..30310, 30188..30388, 30197..30400, 30314..30388, 30506..30655, 30518..31042, 30560..30655, 30689..30940, 30695..31012, 30962..31054, 31058..31102, 31100..31216, 31127..31246, 31172..31246, 31253..31393, 31487..31582, 31496..31675, 31703..31831, 31718..31876, 31724..31876, 31767..31985		

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o1.ts	Method	TBLASTX:Soybean
Start	30062	End	32440
GI	none	Score	95
Exons	30062..30388, 30122..30388, 30122..30364, 30126..30359, 30188..30388, 30188..30391, 30191..30373, 30194..30391, 30197..30388, 30197..30373, 30506..31045, 30506..30655, 30509..30646, 30509..30658, 30548..30655, 30560..30655, 30629..30655, 30692..30907, 30692..30784, 30692..30874, 30695..31042, 30698..30961, 30707..31042, 30851..31042, 31058..31105, 31100..31246, 31124..31246, 31496..31687, 31496..31612, 31496..31744, 31502..31702, 31502..31702, 31508..31693, 31538..31684, 31718..31876, 31724..31876,		

31724..31876, 31730..31984, 31730..31816, 32231..32323,  
32330..32440

Seq. No.	37512	Seq. ID	OJ991209_10.0119.C16
Gene No.	77010	Strand	-
Start	30026	End	34620
Name	OJ991209_10.0119.C16.o9.tw	Method	TBLASTX:Wheat
Start	30077	End	32008
GI	none	Score	122
Exons	30077..30391, 30090..30386, 30518..30655, 30560..30655, 30707..30961, 30902..31048, 31496..31684, 31565..31693, 31715..31870, 31922..32008		

Seq. No.	37513	Seq. ID	OJ991209_10.0119.C17
Gene No.	77011	Strand	-
Start	245	End	571
Name	OJ991209_10.0119.C17.o1.np	Method	AAT/NAP
Start	245	End	571
GI	1172708	Score	149
Exons	245..571		
GI Descrip.	PTS SYSTEM, CELLOBIOSE-SPECIFIC IIA COMPONENT (EIIA-CEL) (CELLOBIOSE-PERMEASE IIA COMPONENT) (PHOSPHOTRANSFERASE ENZYME II, A COMPONENT) (EIII-CEL) gi 1361403 pir S57761 probable cellobiose phosphotransferase enzyme III - Bacillus subtilis gi 895750 emb CAA90287  (Z49992) putative cellobiose phosphotransferase enzyme III [Bacillus subtilis] gi 1783268 dbj BAA11745		

Seq. No.	37514	Seq. ID	OJ991019_16.0118.C1
Gene No.	77012	Strand	-
Start	130	End	620
Name	OJ991019_16.0118.C1.o1.gs	Method	GENSCAN
Start	130	End	465
GI	none	Score	.77
Exons	130..465		

Seq. No.	37514	Seq. ID	OJ991019_16.0118.C1
Gene No.	77012	Strand	-
Start	130	End	620
Name	OJ991019_16.0118.C1.o1.np	Method	AAT/NAP
Start	133	End	620
GI	6498441	Score	645
Exons	133..414, 508..620		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	37514	Seq. ID	OJ991019_16.0118.C1
Gene No.	77012	Strand	-
Start	130	End	620
Name	OJ991019_16.0118.C1.o1.tm	Method	TBLASTX:Maize
Start	133	End	273
GI	none	Score	122
Exons	133..273, 134..268		

Seq. No.	37515	Seq. ID	OJ991019_16.0118.C2
Gene No.	77013	Strand	-



Start	1	End	639
Name	OJ991019_16.0118.C2.o1.np	Method	AAT/NAP
Start	1	End	639
GI	6498441	Score	593
Exons	1..639		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	37515	Seq. ID	OJ991019_16.0118.C2
Gene No.	77013	Strand	-
Start	1	End	639
Name	OJ991019_16.0118.C2.o1.tw	Method	TBLASTX:Wheat
Start	140	End	626
GI	none	Score	147
Exons	140..202, 417..626, 422..625		

Seq. No.	37515	Seq. ID	OJ991019_16.0118.C2
Gene No.	77013	Strand	-
Start	1	End	639
Name	OJ991019_16.0118.C2.o1.tm	Method	TBLASTX:Maize
Start	339	End	638
GI	none	Score	52
Exons	339..401, 340..378, 422..631, 423..638		

Seq. No.	37516	Seq. ID	OJ991019_16.0118.C3
Gene No.	77014	Strand	
Start	7562	End	7843
Name	OJ991019_16.0118.C3.o1.tm	Method	TBLASTX:Maize
Start	7562	End	7843
GI	none	Score	108
Exons	7562..7660, 7659..7808, 7665..7808, 7670..7843, 7682..7810		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77015	Strand	+
Start	1	End	2041
Name	OJ991019_16.0118.C4.o1.gp	Method	AAT/GAP
Start	1	End	2041
GI	none	Score	1739
Exons	1..70, 294..519, 1020..1202, 1617..2041		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77015	Strand	+
Start	1	End	2041
Name	OJ991019_16.0118.C4.o1.np	Method	AAT/NAP
Start	1	End	1781
GI	6175149	Score	290
Exons	1..70, 386..475, 937..1202, 1617..1781		
GI Descrip.	(AC010796) hypothetical protein [Arabidopsis thaliana] gi 6453898 gb AAF09081.1 AC011663_17 (AC011663) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77015	Strand	+
Start	1	End	2041
Name	OJ991019_16.0118.C4.o1.gs	Method	GENSCAN
Start	40	End	1866

GI	none	Score	.66
Exons	40..70, 386..519, 1020..1202, 1617..1628, 1747..1866		
Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o2.tm	Method	TBLASTX:Maize
Start	1615	End	1810
GI	none	Score	166
Exons	1615..1731, 1616..1732, 1617..1730, 1617..1733, 1733..1810, 1734..1784		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o2.gp	Method	AAT/GAP
Start	2590	End	4358
GI	18001_1.R1084	Score	1912
Exons	2590..2974, 3124..3205, 3292..3560, 3856..3996, 4222..4358		
GI Descrip.	'5230728/gb AAD40979.1 AF089851_1 1.0e-113 (AF089851) peroxisomal copper-containing amine oxidase [Glycine max]'		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o1.tm	Method	TBLASTX:Maize
Start	2708	End	5613
GI	none	Score	178
Exons	2708..2749, 2775..2831, 2819..2974, 2841..2975, 3109..3219, 3124..3204, 3125..3238, 3125..3205, 3288..3560, 3288..3560, 3289..3561, 3290..3589, 3850..3999, 3850..4002, 3852..4007, 3858..4031, 4166..4408, 4218..4409, 4219..4410, 4219..4407, 4655..4906, 4660..4914, 4660..4893, 4691..4894, 4963..5196, 4974..5192, 4976..5221, 4978..5223, 4979..5227, 5287..5613, 5288..5563		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o1.ts	Method	TBLASTX:Soybean
Start	2852	End	6659
GI	none	Score	88
Exons	2852..2890, 2891..2974, 2892..2975, 3124..3204, 3125..3205, 3288..3557, 3288..3560, 3289..3561, 3850..4002, 3851..3964, 3855..3998, 3856..3999, 4219..4407, 4220..4408, 4655..4897, 4659..4904, 4660..4923, 4660..4893, 4700..4912, 4974..5192, 4976..5221, 5046..5210, 5287..5616, 5288..5560, 5447..5617, 5721..5771, 5727..5771, 5763..5840, 5764..5841, 5764..5841, 6160..6354, 6162..6296, 6162..6419, 6208..6351, 6347..6463, 6348..6467, 6351..6461, 6356..6472, 6542..6658, 6546..6659		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o2.gs	Method	GENSCAN
Start	2855	End	8967
GI	none	Score	.75

Exons 2855..2974, 3124..3205, 3292..3560, 3856..3996, 4222..4407,  
4657..4893, 4976..5191, 5287..5617, 5728..5840, 6548..6657,  
7696..7789, 7922..7934, 8334..8418, 8700..8967

Seq. No. 37517 Seq. ID OJ991019\_16.0118.C4  
Gene No. 77016 Strand -  
Start 2590 End 8967  
Name OJ991019\_16.0118.C4.o2.np Method AAT/NAP  
Start 2858 End 6646  
GI 5230728 Score 2874  
Exons 2858..2974, 3124..3205, 3292..3560, 3856..3996, 4222..4407,  
4657..4893, 4976..5191, 5287..5617, 5728..5840, 6162..6462,  
6544..6646  
GI Descrip. (AF089851) peroxisomal copper-containing amine oxidase [Glycine  
max]

Seq. No. 37517 Seq. ID OJ991019\_16.0118.C4  
Gene No. 77016 Strand -  
Start 2590 End 8967  
Name OJ991019\_16.0118.C4.o2.tc Method TBLASTX:Cress  
Start 3330 End 4747  
GI none Score 85

Exons 3330..3383, 3399..3437, 3413..3559, 3433..3558, 3435..3560,  
3436..3561, 3850..4002, 3852..3998, 3853..3999, 4166..4411,  
4219..4407, 4220..4435, 4660..4746, 4661..4747

Seq. No. 37517 Seq. ID OJ991019\_16.0118.C4  
Gene No. 77016 Strand -  
Start 2590 End 8967  
Name OJ991019\_16.0118.C4.o2.tw Method TBLASTX:Wheat  
Start 3342 End 4251  
GI none Score 310  
Exons 3342..3560, 3343..3561, 3347..3586, 3850..4002, 3851..3967,  
3855..4007, 4219..4251

Seq. No. 37517 Seq. ID OJ991019\_16.0118.C4  
Gene No. 77016 Strand -  
Start 2590 End 8967  
Name OJ991019\_16.0118.C4.o3.tw Method TBLASTX:Wheat  
Start 4252 End 4698  
GI none Score 246  
Exons 4252..4410, 4252..4407, 4254..4409, 4256..4435, 4659..4697,  
4660..4698, 4660..4698

Seq. No. 37517 Seq. ID OJ991019\_16.0118.C4  
Gene No. 77016 Strand -  
Start 2590 End 8967  
Name OJ991019\_16.0118.C4.o3.gp Method AAT/GAP  
Start 4717 End 5495  
GI 30433\_1.R1084 Score 1124  
Exons 4717..4893, 4976..5191, 5287..5495  
GI Descrip. '4559342/gb|AAD23004.1|AC007087\_23 1.0e-104 (AC007087) putative  
copper methylamine oxidase [Arabidopsis thaliana]'

Seq. No. 37517 Seq. ID OJ991019\_16.0118.C4  
Gene No. 77016 Strand -  
Start 2590 End 8967

Name	OJ991019_16.0118.C4.o1.tc	Method	TBLASTX:Cress
Start	4792	End	5356
GI	none	Score	140
Exons	4792..4893, 4793..4897, 4796..4894, 4974..5192, 4975..5196, 4976..5221, 5040..5210, 5287..5355, 5288..5356		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o1.tw	Method	TBLASTX:Wheat
Start	5090	End	5565
GI	none	Score	107
Exons	5090..5221, 5091..5222, 5287..5565, 5288..5563		

Seq. No.	37517	Seq. ID	OJ991019_16.0118.C4
Gene No.	77016	Strand	-
Start	2590	End	8967
Name	OJ991019_16.0118.C4.o3.tc	Method	TBLASTX:Cress
Start	6174	End	6665
GI	none	Score	123
Exons	6174..6419, 6208..6339, 6343..6474, 6344..6475, 6348..6461, 6352..6468, 6353..6475, 6542..6658, 6546..6665		

Seq. No.	37518	Seq. ID	OJ991019_16.0118.C5
Gene No.	77017	Strand	+
Start	2159	End	2734
Name	OJ991019_16.0118.C5.o1.gs	Method	GENSCAN
Start	2159	End	2734
GI	none	Score	.69
Exons	2159..2271, 2547..2734		

Seq. No.	37519	Seq. ID	OJ991019_16.0118.C6
Gene No.	77018	Strand	+
Start	530	End	3735
Name	OJ991019_16.0118.C6.o1.gs	Method	GENSCAN
Start	530	End	3414
GI	none	Score	.42
Exons	530..544, 1106..1231, 1750..2307, 2430..2486, 2651..2816, 3106..3182, 3291..3414		

Seq. No.	37519	Seq. ID	OJ991019_16.0118.C6
Gene No.	77018	Strand	+
Start	530	End	3735
Name	OJ991019_16.0118.C6.o1.gp	Method	AAT/GAP
Start	1865	End	2735
GI	286391	Score	530
Exons	1865..2058, 2430..2486, 2651..2735		

Seq. No.	37519	Seq. ID	OJ991019_16.0118.C6
Gene No.	77018	Strand	+
Start	530	End	3735
Name	OJ991019_16.0118.C6.o1.tm	Method	TBLASTX:Maize
Start	2432	End	3735
GI	none	Score	70
Exons	2432..2488, 2632..2751, 2648..2755, 2656..2751, 2693..2752, 3095..3181, 3102..3191, 3105..3182, 3285..3413, 3290..3415, 3290..3409, 3654..3734, 3671..3733, 3673..3735		

Seq. No.	37520	Seq. ID	OJ991019_16.0118.C7
Gene No.	77019	Strand	+
Start	1	End	1664
Name	OJ991019_16.0118.C7.o1.np	Method	AAT/NAP
Start	1	End	1661
GI	6498436	Score	842
Exons	1..742, 1172..1206, 1543..1661		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	37520	Seq. ID	OJ991019_16.0118.C7
Gene No.	77019	Strand	+
Start	1	End	1664
Name	OJ991019_16.0118.C7.o1.gs	Method	GENSCAN
Start	531	End	1664
GI	none	Score	.59
Exons	531..615, 1543..1664		

Seq. No.	37520	Seq. ID	OJ991019_16.0118.C7
Gene No.	77020	Strand	+
Start	6725	End	12387
Name	OJ991019_16.0118.C7.o2.np	Method	AAT/NAP
Start	6725	End	12387
GI	4220519	Score	849
Exons	6725..6805, 8795..8923, 9435..9516, 10156..10223, 10321..10425, 10578..10667, 10745..10820, 11055..11124, 11562..11632, 11708..11798, 11953..12118, 12352..12387		
GI Descrip.	(AL035356) putative protein binding protein [Arabidopsis thaliana]		

Seq. No.	37520	Seq. ID	OJ991019_16.0118.C7
Gene No.	77021	Strand	-
Start	5013	End	5187
Name	OJ991019_16.0118.C7.o1.gp	Method	AAT/GAP
Start	5013	End	5187
GI	LIB3433-026-P1-K1-C1	Score	222
Exons	5013..5187		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37520	Seq. ID	OJ991019_16.0118.C7
Gene No.	77022	Strand	
Start	10135	End	10445
Name	OJ991019_16.0118.C7.o1.ts	Method	TBLASTX:Soybean
Start	10135	End	10445
GI	none	Score	96
Exons	10135..10221, 10136..10222, 10168..10221, 10309..10422, 10322..10426, 10332..10445		

Seq. No.	37520	Seq. ID	OJ991019_16.0118.C7
Gene No.	77022	Strand	
Start	10135	End	10445
Name	OJ991019_16.0118.C7.o1.tc	Method	TBLASTX:Cress
Start	10168	End	10426
GI	none	Score	95
Exons	10168..10221, 10182..10223, 10319..10426, 10330..10425		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77023	Strand	-
Start	629	End	3736
Name	OJ991019_16.0118.C8.o1.gs	Method	GENSCAN
Start	629	End	3736
GI	none	Score	.64
Exons	629..1110, 1620..1759, 1860..2399, 3606..3736		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77023	Strand	-
Start	629	End	3736
Name	OJ991019_16.0118.C8.o1.gp	Method	AAT/GAP
Start	843	End	1976
GI	6325_1.R1084	Score	1120
Exons	843..1173, 1620..1759, 1860..1976		
GI Descrip.	'4204281 7.0e-10 (AC004146) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77023	Strand	-
Start	629	End	3736
Name	OJ991019_16.0118.C8.o1.np	Method	AAT/NAP
Start	851	End	3183
GI	4204281	Score	303
Exons	851..1167, 1579..1759, 1860..2343, 3123..3183		
GI Descrip.	(AC004146) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77023	Strand	-
Start	629	End	3736
Name	OJ991019_16.0118.C8.o2.gp	Method	AAT/GAP
Start	2260	End	3484
GI	none	Score	793
Exons	2260..2399, 3203..3484		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o3.tm	Method	TBLASTX:Maize
Start	723	End	2072
GI	none	Score	58
Exons	723..812, 734..814, 774..815, 816..902, 823..960, 824..973, 964..990, 966..989, 969..989, 995..1033, 1021..1095, 1022..1081, 1097..1171, 1621..1761, 1629..1676, 1633..1761, 1859..1933, 1869..1934, 1870..1950, 1919..2071, 1931..2065, 1941..2072		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o1.tw	Method	TBLASTX:Wheat
Start	946	End	1929
GI	none	Score	102
Exons	946..1122, 946..1044, 947..1048, 947..1048, 947..1135, 956..1048, 958..1044, 986..1054, 988..1086, 1622..1759, 1624..1761, 1626..1673, 1658..1762, 1854..1895, 1855..1929, 1859..1927		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o2.ts	Method	TBLASTX:Soybean
Start	1638	End	2293
GI	none	Score	60
Exons	1638..1757, 1639..1755, 1639..1761, 1658..1762, 1844..2293		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o4.tm	Method	TBLASTX:Maize
Start	2153	End	2402
GI	none	Score	118
Exons	2153..2293, 2154..2279, 2158..2280, 2293..2367, 2297..2371, 2299..2364, 2367..2402, 2370..2402		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o3.gp	Method	AAT/GAP
Start	4507	End	5275
GI	12622..1.R1084	Score	821
Exons	4507..4868, 5178..5275		
GI Descrip.	'3790188/emb CAA74776  2.0e-87 (Y14431) NAD-dependent isocitrate dehydrogenase [Nicotiana tabacum]'		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o1.tm	Method	TBLASTX:Maize
Start	4535	End	5215
GI	none	Score	392
Exons	4535..4804, 4538..4870, 4584..4874, 4588..4869, 4830..4874, 5174..5215		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o1.tc	Method	TBLASTX:Cress
Start	4591	End	6437
GI	none	Score	325
Exons	4591..4869, 4598..4870, 4707..4874, 5170..5256, 5175..5243, 5176..5247, 5177..5269, 5231..5257, 6169..6429, 6180..6329, 6185..6427, 6363..6437		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o1.ts	Method	TBLASTX:Soybean
Start	4594	End	6429
GI	none	Score	328
Exons	4594..4869, 4598..4870, 5170..5256, 5176..5247, 6169..6429, 6185..6427		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-

Start	4594	End	6856
Name	OJ991019_16.0118.C8.o2.gs	Method	GENSCAN
Start	4594	End	6426
GI	none	Score	.72
Exons	4594..4868, 5178..5256, 6187..6426		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o2.np	Method	AAT/NAP
Start	4597	End	6856
GI	3790188	Score	843
Exons	4597..4868, 5178..5256, 6187..6475, 6749..6856		
GI Descrip.	(Y14431) NAD-dependent isocitrate dehydrogenase [Nicotiana tabacum]		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o2.tw	Method	TBLASTX:Wheat
Start	4613	End	6267
GI	none	Score	97
Exons	4613..4789, 4615..4782, 6226..6267		

Seq. No.	37521	Seq. ID	OJ991019_16.0118.C8
Gene No.	77024	Strand	-
Start	4594	End	6856
Name	OJ991019_16.0118.C8.o2.tm	Method	TBLASTX:Maize
Start	5221	End	6433
GI	none	Score	381
Exons	5221..5256, 6169..6432, 6185..6433		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77025	Strand	+
Start	7358	End	7980
Name	OJ991019_16.0118.C9.o3.gs	Method	GENSCAN
Start	7358	End	7980
GI	none	Score	.62
Exons	7358..7489, 7921..7980		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77026	Strand	-
Start	278	End	946
Name	OJ991019_16.0118.C9.o1.np	Method	AAT/NAP
Start	278	End	822
GI	3790188	Score	678
Exons	278..822		
GI Descrip.	(Y14431) NAD-dependent isocitrate dehydrogenase [Nicotiana tabacum]		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77026	Strand	-
Start	278	End	946
Name	OJ991019_16.0118.C9.o1.gs	Method	GENSCAN
Start	295	End	822
GI	none	Score	.77
Exons	295..822		



Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77026	Strand	-
Start	278	End	946
Name	OJ991019_16.0118.C9.o1.gp	Method	AAT/GAP
Start	511	End	946
GI	31524_1.R1084	Score	840
Exons	511..946		
GI Descrip.	'3790188/emb CAA74776  4.0e-33 (Y14431) NAD-dependent isocitrate dehydrogenase [Nicotiana tabacum]'		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77027	Strand	-
Start	4533	End	5396
Name	OJ991019_16.0118.C9.o1.tc	Method	TBLASTX:Cress
Start	280	End	736
GI	none	Score	48
Exons	280..342, 292..735, 344..736		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77027	Strand	-
Start	4533	End	5396
Name	OJ991019_16.0118.C9.o1.ts	Method	TBLASTX:Soybean
Start	280	End	736
GI	none	Score	54
Exons	280..336, 292..735, 341..736		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77027	Strand	-
Start	4533	End	5396
Name	OJ991019_16.0118.C9.o2.tm	Method	TBLASTX:Maize
Start	292	End	454
GI	none	Score	66
Exons	292..453, 344..454		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77027	Strand	-
Start	4533	End	5396
Name	OJ991019_16.0118.C9.o1.tw	Method	TBLASTX:Wheat
Start	337	End	702
GI	none	Score	58
Exons	337..549, 583..702, 608..676		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77027	Strand	-
Start	4533	End	5396
Name	OJ991019_16.0118.C9.o1.tm	Method	TBLASTX:Maize
Start	454	End	822
GI	none	Score	399
Exons	454..822, 464..739		

Seq. No.	37522	Seq. ID	OJ991019_16.0118.C9
Gene No.	77027	Strand	-
Start	4533	End	5396
Name	OJ991019_16.0118.C9.o2.gs	Method	GENSCAN
Start	4533	End	5354
GI	none	Score	.84

Exons 4533..5354

Seq. No. 37522  
Gene No. 77027  
Start 4533  
Name OJ991019\_16.0118.C9.o2.gp  
Start 4982  
GI none  
Exons 4982..5396

Seq. ID OJ991019\_16.0118.C9  
Strand -  
End 5396  
Method AAT/GAP  
End 5396  
Score 795

Seq. No. 37523  
Gene No. 77028  
Start 198  
Name OJ991019\_16.0118.C10.o1.tm  
Start 141  
GI none  
Exons 141..179, 141..179, 142..180,  
362..478, 363..560, 370..558

Seq. ID OJ991019\_16.0118.C10  
Strand -  
End 1597  
Method TBLASTX:Maize  
End 560  
Score 39

Seq. No. 37523  
Gene No. 77028  
Start 198  
Name OJ991019\_16.0118.C10.o1.gs  
Start 198  
GI none  
Exons 198..605, 703..858, 1047..1274

Seq. ID OJ991019\_16.0118.C10  
Strand -  
End 1597  
Method GENSCAN  
End 1274  
Score .79

Seq. No. 37523  
Gene No. 77028  
Start 198  
Name OJ991019\_16.0118.C10.o1.np  
Start 240  
GI 5803254  
Exons 240..605, 700..858, 1047..1597

Seq. ID OJ991019\_16.0118.C10  
Strand -  
End 1597  
Method AAT/NAP  
End 1597  
Score 705

GI Descrip. (AP000399) ESTs C97429(C60159),D22427(C11106),  
AU078031(E31854),D15683(C1084) correspond to a region of the  
predicted gene; hypothetical protein [Oryza sativa]

Seq. No. 37523  
Gene No. 77028  
Start 198  
Name OJ991019\_16.0118.C10.o2.tm  
Start 700  
GI none  
Exons 700..858, 700..858, 702..866, 1044..1202, 1046..1171,  
1050..1205, 1064..1225, 1195..1383, 1195..1371, 1196..1384,  
1200..1379, 1337..1384, 1384..1422

Seq. ID OJ991019\_16.0118.C10  
Strand -  
End 1597  
Method TBLASTX:Maize  
End 1422  
Score 171

Seq. No. 37524  
Gene No. 77029  
Start 413  
Name OJ991019\_16.0118.C11.o1.gp  
Start 413  
GI 571591  
Exons 413..779

Seq. ID OJ991019\_16.0118.C11  
Strand -  
End 2469  
Method AAT/GAP  
End 779  
Score 642

Seq. No. 37524

Seq. ID OJ991019\_16.0118.C11

Gene No.	77029	Strand	-
Start	413	End	2469
Name	OJ991019_16.0118.C11.o1.np	Method	AAT/NAP
Start	599	End	2469
GI	5852085	Score	478
Exons	599..706, 1479..1870, 2347..2469		
GI Descrip.	(AL117264) zwh0008.1 [Oryza sativa]		

Seq. No.	37524	Seq. ID	OJ991019_16.0118.C11
Gene No.	77030	Strand	-
Start	2876	End	3466
Name	OJ991019_16.0118.C11.o2.gs	Method	GENSCAN
Start	2876	End	3466
GI	none	Score	.97
Exons	2876..3006, 3353..3466		

Seq. No.	37525	Seq. ID	OJ991019_16.0118.C12
Gene No.	77031	Strand	+
Start	7254	End	7308
Name	OJ991019_16.0118.C12.o2.gp	Method	AAT/GAP
Start	7254	End	7308
GI	LIB3431-030-P1-N1-G8	Score	88
Exons	7254..7308		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	37525	Seq. ID	OJ991019_16.0118.C12
Gene No.	77032	Strand	-
Start	2624	End	3912
Name	OJ991019_16.0118.C12.o1.gs	Method	GENSCAN
Start	2624	End	3912
GI	none	Score	.75
Exons	2624..2629, 3358..3509, 3870..3912		

Seq. No.	37525	Seq. ID	OJ991019_16.0118.C12
Gene No.	77033	Strand	-
Start	3870	End	3954
Name	OJ991019_16.0118.C12.o1.gp	Method	AAT/GAP
Start	3870	End	3954
GI	none	Score	119
Exons	3870..3954		

Seq. No.	37526	Seq. ID	OJ991019_16.0118.C13
Gene No.	77034	Strand	-
Start	558	End	7117
Name	OJ991019_16.0118.C13.o1.gs	Method	GENSCAN
Start	558	End	7117
GI	none	Score	.48
Exons	558..878, 1303..1520, 1584..1893, 2162..2263, 2310..2417, 2510..2771, 2876..3174, 3253..3371, 3444..3666, 3752..3940, 3959..4118, 4194..4347, 4760..5418, 5470..6333, 6486..7117		

Seq. No.	37526	Seq. ID	OJ991019_16.0118.C13
Gene No.	77034	Strand	-
Start	558	End	7117
Name	OJ991019_16.0118.C13.o1.np	Method	AAT/NAP
Start	1570	End	7006

GI 5441880 Score 2751  
 Exons 1570..1784, 2018..2271, 2510..2771, 2876..3174, 3752..4085, 4194..4333, 4935..5261, 5520..5551, 5996..7006  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 37526 Seq. ID OJ991019\_16.0118.C13  
 Gene No. 77034 Strand -  
 Start 558 End 7117  
 Name OJ991019\_16.0118.C13.o1.gp Method AAT/GAP  
 Start 1839 End 4079  
 GI LIB3433-020-P1-K1-A6 Score 686  
 Exons 1839..2217, 4037..4079  
 GI Descrip. '5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'

Seq. No. 37526 Seq. ID OJ991019\_16.0118.C13  
 Gene No. 77034 Strand -  
 Start 558 End 7117  
 Name OJ991019\_16.0118.C13.o1.tw Method TBLASTX:Wheat  
 Start 5769 End 6144  
 GI none Score 66  
 Exons 5769..5942, 5780..5920, 5875..5943, 5967..6143, 5992..6144

Seq. No. 37526 Seq. ID OJ991019\_16.0118.C13  
 Gene No. 77034 Strand -  
 Start 558 End 7117  
 Name OJ991019\_16.0118.C13.o1.tm Method TBLASTX:Maize  
 Start 5844 End 6439  
 GI none Score 211  
 Exons 5844..5915, 5962..6402, 5973..6404, 6410..6439

Seq. No. 37527 Seq. ID OJ991019\_16.0118.C14  
 Gene No. 77035 Strand +  
 Start 142 End 3593  
 Name OJ991019\_16.0118.C14.o1.gs Method GENSCAN  
 Start 142 End 3500  
 GI none Score .49  
 Exons 142..219, 510..636, 1073..1191, 2459..2686, 2875..3030, 3126..3500

Seq. No. 37527 Seq. ID OJ991019\_16.0118.C14  
 Gene No. 77035 Strand +  
 Start 142 End 3593  
 Name OJ991019\_16.0118.C14.o1.np Method AAT/NAP  
 Start 1901 End 3494  
 GI 5803254 Score 894  
 Exons 1901..2686, 2875..3030, 3126..3494  
 GI Descrip. (AP000399) ESTs C97429(C60159), D22427(C11106), AU078031(E31854), D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]

Seq. No. 37527 Seq. ID OJ991019\_16.0118.C14  
 Gene No. 77035 Strand +  
 Start 142 End 3593  
 Name OJ991019\_16.0118.C14.o2.tm Method TBLASTX:Maize

Start	2128	End	2490
GI	none	Score	55
Exons	2128..2169, 2129..2170, 2129..2206, 2171..2479, 2172..2486, 2173..2490, 2174..2479		

Seq. No.	37527	Seq. ID	OJ991019_16.0118.C14
Gene No.	77035	Strand	+
Start	142	End	3593
Name	OJ991019_16.0118.C14.o3.tm	Method	TBLASTX:Maize
Start	2495	End	3171
GI	none	Score	62
Exons	2495..2536, 2495..2533, 2508..2669, 2533..2688, 2546..2677, 2867..3031, 2874..3032, 2875..3033, 2875..3036, 3148..3171		

Seq. No.	37527	Seq. ID	OJ991019_16.0118.C14
Gene No.	77035	Strand	+
Start	142	End	3593
Name	OJ991019_16.0118.C14.o1.tm	Method	TBLASTX:Maize
Start	3174	End	3593
GI	none	Score	217
Exons	3174..3371, 3176..3364, 3262..3372, 3365..3484, 3370..3465, 3373..3537, 3374..3538, 3375..3539, 3375..3542, 3551..3589, 3555..3593		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77036	Strand	+
Start	1564	End	3154
Name	OJ991019_16.0118.C15.o1.gs	Method	GENSCAN
Start	1564	End	3154
GI	none	Score	.84
Exons	1564..1691, 1769..1913, 2088..2531, 2559..2932, 2950..3154		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77037	Strand	+
Start	10393	End	14920
Name	OJ991019_16.0118.C15.o3.gs	Method	GENSCAN
Start	10393	End	14920
GI	none	Score	.84
Exons	10393..11564, 12434..12741, 14286..14471, 14817..14920		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77037	Strand	+
Start	10393	End	14920
Name	OJ991019_16.0118.C15.o2.np	Method	AAT/NAP
Start	10597	End	13682
GI	6739515	Score	1616
Exons	10597..11564, 12434..12835, 13661..13682		
GI Descrip.	(AF136004) eukaryotic initiation factor 4B [Triticum aestivum]		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77037	Strand	+
Start	10393	End	14920
Name	OJ991019_16.0118.C15.o2.gp	Method	AAT/GAP
Start	11447	End	12550
GI	3106543	Score	314
Exons	11447..11565, 12436..12550		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77037	Strand	+
Start	10393	End	14920
Name	OJ991019_16.0118.C15.o3.gp	Method	AAT/GAP
Start	12784	End	14058
GI	none	Score	831
Exons	12784..12835, 13661..14058		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77038	Strand	-
Start	1	End	2054
Name	OJ991019_16.0118.C15.o1.np	Method	AAT/NAP
Start	1	End	2054
GI	3668090	Score	90
Exons	1..71, 422..527, 707..932, 2024..2054		
GI Descrip.	(AC004667) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77039	Strand	-
Start	3706	End	7548
Name	OJ991019_16.0118.C15.o2.gs	Method	GENSCAN
Start	3706	End	7548
GI	none	Score	.64
Exons	3706..3928, 3942..4077, 4514..4825, 4851..5097, 5705..5732, 7487..7548		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o1.tm	Method	TBLASTX:Maize
Start	10864	End	13948
GI	none	Score	44
Exons	10864..10914, 10869..11030, 10870..11031, 10901..11038, 10909..11013, 10979..11122, 11023..11565, 11058..11138, 11136..11153, 11202..11333, 11210..11245, 11214..11564, 12432..12533, 12446..12523, 12513..12680, 12540..12671, 12542..12694, 12550..12699, 12557..12700, 12711..12770, 12713..12835, 12718..12837, 12718..12834, 12771..12842, 13659..13718, 13659..13712, 13715..13768, 13731..13769, 13827..13895, 13886..13948, 13889..13948		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o1.tc	Method	TBLASTX:Cress
Start	11152	End	11547
GI	none	Score	159
Exons	11152..11337, 11220..11330, 11434..11496, 11454..11495, 11458..11547, 11466..11546		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o3.np	Method	AAT/NAP
Start	15647	End	16626
GI	4220518	Score	256
Exons	15647..16122, 16485..16626		

GI Descrip. (AL035356) hypothetical protein [Arabidopsis thaliana]

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o1.tw	Method	TBLASTX:Wheat
Start	15651	End	15913
GI	none	Score	171
Exons	15651..15908, 15740..15913, 15806..15913		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o4.gs	Method	GENSCAN
Start	15656	End	16909
GI	none	Score	.79
Exons	15656..16122, 16488..16662, 16769..16909		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o1.ts	Method	TBLASTX:Soybean
Start	15797	End	16123
GI	none	Score	84
Exons	15797..15898, 15798..15899, 15896..16027, 15946..16011, 16076..16123		

Seq. No.	37528	Seq. ID	OJ991019_16.0118.C15
Gene No.	77040	Strand	-
Start	15656	End	16909
Name	OJ991019_16.0118.C15.o4.gp	Method	AAT/GAP
Start	15854	End	16658
GI	286865	Score	781
Exons	15854..16122, 16488..16658		

Seq. No.	37529	Seq. ID	OJ991019_16.0118.C16
Gene No.	77041	Strand	+
Start	1	End	2475
Name	OJ991019_16.0118.C16.o1.np	Method	AAT/NAP
Start	1	End	2475
GI	6598454	Score	447
Exons	1..456, 1297..1695, 2407..2475		

GI Descrip. (AC005309) putative SWI/SNF family transcription activator [Arabidopsis thaliana]

Seq. No.	37529	Seq. ID	OJ991019_16.0118.C16
Gene No.	77041	Strand	+
Start	1	End	2475
Name	OJ991019_16.0118.C16.o1.ts	Method	TBLASTX:Soybean
Start	12	End	291
GI	none	Score	75
Exons	12..65, 12..179, 13..183, 256..291		

Seq. No.	37529	Seq. ID	OJ991019_16.0118.C16
Gene No.	77041	Strand	+
Start	1	End	2475
Name	OJ991019_16.0118.C16.o1.tc	Method	TBLASTX:Cress

Start 13  
 GI none  
 Exons 13..186, 21..182

End 186  
 Score 212

Seq. No. 37529  
 Gene No. 77041  
 Start 1  
 Name OJ991019\_16.0118.C16.o1.gs  
 Start 60  
 GI none  
 Exons 60..456, 1297..1782, 1879..2042, 2110..2171

Seq. ID OJ991019\_16.0118.C16  
 Strand +  
 End 2475  
 Method GENSCAN  
 End 2171  
 Score .73

Seq. No. 37529  
 Gene No. 77041  
 Start 1  
 Name OJ991019\_16.0118.C16.o1.gp  
 Start 341  
 GI LIB3475-005-P1-K1-C3  
 Exons 341..456, 1297..1613  
 GI Descrip. '3702314 1.0e-26 (AC002535) similar to SWI/SNF complex subunit BAF170 [Arabidopsis thaliana]'

Seq. ID OJ991019\_16.0118.C16  
 Strand +  
 End 2475  
 Method AAT/GAP  
 End 1613  
 Score 834

Seq. No. 37529  
 Gene No. 77041  
 Start 1  
 Name OJ991019\_16.0118.C16.o1.tm  
 Start 1671  
 GI none  
 Exons 1671..1781, 1671..1781, 1672..1785, 1852..2031, 1876..2040, 1955..2041

Seq. ID OJ991019\_16.0118.C16  
 Strand +  
 End 2475  
 Method TBLASTX:Maize  
 End 2041  
 Score 101

Seq. No. 37530  
 Gene No. 77042  
 Start 1  
 Name OJ991019\_16.0118.C17.o1.np  
 Start 1  
 GI 6598454  
 Exons 1..42, 117..229, 947..1120  
 GI Descrip. (AC005309) putative SWI/SNF family transcription activator [Arabidopsis thaliana]

Seq. ID OJ991019\_16.0118.C17  
 Strand +  
 End 1120  
 Method AAT/NAP  
 End 1120  
 Score 179

Seq. No. 37530  
 Gene No. 77043  
 Start 72  
 Name OJ991019\_16.0118.C17.o1.gp  
 Start 72  
 GI LIB3434-038-P1-K1-B4  
 Exons 72..236, 447..470  
 GI Descrip. '3738276 6.0e-12 (AC005309) similar to SWI/SNF complex subunit BAF170, 5'' partial [Arabidopsis thaliana]'

Seq. ID OJ991019\_16.0118.C17  
 Strand -  
 End 470  
 Method AAT/GAP  
 End 470  
 Score 268

Seq. No. 37531  
 Gene No. 77044  
 Start 346  
 Name OJ991019\_16.0118.C20.o1.gs  
 Start 346  
 GI none

Seq. ID OJ991019\_16.0118.C20  
 Strand +  
 End 13951  
 Method GENSCAN  
 End 13942  
 Score .55



Exons 346..504, 1823..3917, 4040..4201, 6470..6751, 7454..7948,  
9564..10539, 10615..10760, 10868..11047, 11131..11295,  
11506..11622, 11881..12076, 12286..12454, 12519..12584,  
13059..13331, 13724..13942

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77044	Strand	+
Start	346	End	13951
Name	OJ991019_16.0118.C20.o1.gp	Method	AAT/GAP
Start	355	End	2131
GI	none	Score	1045
Exons	355..590, 1823..2131		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77044	Strand	+
Start	346	End	13951
Name	OJ991019_16.0118.C20.o1.np	Method	AAT/NAP
Start	1154	End	3883
GI	5903066	Score	807
Exons	1154..1217, 1785..3715, 3771..3883		
GI Descrip.	(AC008016) F6D8.26 [Arabidopsis thaliana]		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77044	Strand	+
Start	346	End	13951
Name	OJ991019_16.0118.C20.o2.gp	Method	AAT/GAP
Start	3023	End	3448
GI	20940_1.R1084	Score	794
Exons	3023..3448		
GI Descrip.	'4467124/emb CAB37558  9.0e-17 (AL035538) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77044	Strand	+
Start	346	End	13951
Name	OJ991019_16.0118.C20.o2.np	Method	AAT/NAP
Start	9873	End	13951
GI	3850588	Score	1762
Exons	9873..10760, 10868..11047, 11131..11417, 11506..11622, 11862..12124, 12286..12473, 13078..13385, 13802..13951		
GI Descrip.	(AC005278) Contains similarity to gb AB011110 KIAA0538 protein from Homo sapiens brain and to phospholipid-binding domain C2 PF 00168: ESTs gb AA585988 and gb T04384 come from this gene; [Arabidopsis thaliana]		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77045	Strand	+
Start	15139	End	17869
Name	OJ991019_16.0118.C20.o3.np	Method	AAT/NAP
Start	15133	End	17728
GI	1871526	Score	695
Exons	15133..15840, 16978..17144, 17221..17728		
GI Descrip.	(X81997) leucine-rich-repeat protein [Helianthus annuus]		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77045	Strand	+
Start	15139	End	17869

Name	OJ991019_16.0118.C20.o2.gs	Method	GENSCAN
Start	15139	End	17869
GI	none	Score	.89
Exons	15139..15840, 16978..17114, 17221..17869		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77045	Strand	+
Start	15139	End	17869
Name	OJ991019_16.0118.C20.o4.gp	Method	AAT/GAP
Start	17097	End	17789
GI	52346_1.R1084	Score	1185
Exons	17097..17144, 17221..17789		
GI Descrip.	'1871526/emb CAA57523  7.0e-38 (X81997) leucine-rich-repeat protein [Helianthus annuus]'		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77046	Strand	-
Start	14003	End	14160
Name	OJ991019_16.0118.C20.o3.gp	Method	AAT/GAP
Start	14003	End	14160
GI	3106956	Score	276
Exons	14003..14160		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o1.tw	Method	TBLASTX:Wheat
Start	2081	End	2587
GI	none	Score	603
Exons	2081..2416, 2083..2412, 2085..2414, 2411..2587, 2417..2587		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o4.tc	Method	TBLASTX:Cress
Start	2522	End	2845
GI	none	Score	183
Exons	2522..2845		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o3.ts	Method	TBLASTX:Soybean
Start	2593	End	3145
GI	none	Score	313
Exons	2593..2946, 2594..2923, 2996..3145, 3011..3142		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o3.tm	Method	TBLASTX:Maize
Start	2632	End	3184
GI	none	Score	468
Exons	2632..3027, 2642..3184, 3049..3183		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-

Start	17912	End	19143
Name	OJ991019_16.0118.C20.o2.tw	Method	TBLASTX:Wheat
Start	3176	End	3571
GI	none	Score	661
Exons	3176..3571, 3178..3570, 3179..3571		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o2.tm	Method	TBLASTX:Maize
Start	3190	End	3628
GI	none	Score	726
Exons	3190..3627, 3191..3628, 3191..3628		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o2.tc	Method	TBLASTX:Cress
Start	10157	End	10471
GI	none	Score	204
Exons	10157..10468, 10325..10471		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o5.ts	Method	TBLASTX:Soybean
Start	10171	End	10438
GI	none	Score	235
Exons	10171..10419, 10172..10438, 10295..10426		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o4.ts	Method	TBLASTX:Soybean
Start	10514	End	11046
GI	none	Score	231
Exons	10514..10762, 10516..10791, 10866..10949, 10867..10965, 10947..11012, 10951..11046		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o1.tc	Method	TBLASTX:Cress
Start	10700	End	11420
GI	none	Score	63
Exons	10700..10762, 10866..10949, 10866..10949, 10867..10950, 10953..11045, 10954..11046, 11129..11374, 11139..11360, 11373..11420, 11375..11416		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o2.ts	Method	TBLASTX:Soybean
Start	11141	End	12129
GI	none	Score	298
Exons	11141..11359, 11142..11360, 11376..11420, 11384..11425, 11503..11640, 11517..11633, 11857..11949, 11858..12073,		

11877..12125, 12037..12129

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o5.tm	Method	TBLASTX:Maize
Start	13067	End	13334
GI	none	Score	227
Exons	13067..13198, 13068..13334, 13220..13327		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o4.tm	Method	TBLASTX:Maize
Start	15133	End	15324
GI	none	Score	105
Exons	15133..15213, 15135..15206, 15231..15323, 15232..15324		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o1.tm	Method	TBLASTX:Maize
Start	15727	End	17873
GI	none	Score	186
Exons	15727..15843, 15727..15846, 16943..17020, 16972..17115, 16978..17118, 16981..17133, 17011..17133, 17041..17139, 17050..17133, 17108..17155, 17110..17145, 17210..17281, 17212..17715, 17213..17569, 17219..17746, 17220..17750, 17220..17723, 17471..17623, 17690..17824, 17758..17823, 17822..17869, 17826..17873		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o1.ts	Method	TBLASTX:Soybean
Start	15766	End	17896
GI	none	Score	68
Exons	15766..15837, 17041..17139, 17375..17737, 17376..17633, 17599..17715, 17758..17814, 17759..17818, 17831..17896		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o4.np	Method	AAT/NAP
Start	17912	End	19143
GI	4220521	Score	133
Exons	17912..18010, 18923..19143		
GI Descrip.	(AL035356) putative protein [Arabidopsis thaliana]		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o5.gp	Method	AAT/GAP
Start	18482	End	18832
GI	13512_1.R1084	Score	706
Exons	18482..18832		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA,		

complete cds'

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o3.gs	Method	GENSCAN
Start	18684	End	19088
GI	none	Score	.69
Exons	18684..18832, 18875..18917, 18923..19088		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o6.tm	Method	TBLASTX:Maize
Start	18919	End	19081
GI	none	Score	65
Exons	18919..19026, 18921..19079, 18922..19080, 18923..19081, 18932..19081, 18971..19078		

Seq. No.	37531	Seq. ID	OJ991019_16.0118.C20
Gene No.	77047	Strand	-
Start	17912	End	19143
Name	OJ991019_16.0118.C20.o3.tc	Method	TBLASTX:Cress
Start	18922	End	19084
GI	none	Score	81
Exons	18922..19083, 18923..19084, 18943..19029, 18950..19084		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77048	Strand	+
Start	4030	End	12743
Name	OJ991019_16.0118.C21.o2.gs	Method	GENSCAN
Start	4030	End	12743
GI	none	Score	.61
Exons	4030..4437, 4924..4949, 7829..7975, 8076..8145, 8253..9452, 9562..10046, 11667..11709, 12348..12476, 12576..12743		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77048	Strand	+
Start	4030	End	12743
Name	OJ991019_16.0118.C21.o3.np	Method	AAT/NAP
Start	7917	End	10107
GI	6553905	Score	1109
Exons	7917..7975, 8076..8145, 8235..9452, 9562..10107		
GI Descrip.	(AC012563) unknown protein [Arabidopsis thaliana]		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77049	Strand	-
Start	1	End	3337
Name	OJ991019_16.0118.C21.o1.gp	Method	AAT/GAP
Start	1	End	564
GI	LIB3434-041-P1-K1-E5	Score	611
Exons	1..105, 196..345, 447..564		
GI Descrip.	'4220521/emb CAA22994  1.0e-21 (AL035356) putative protein [Arabidopsis thaliana]'		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77049	Strand	-

Start	1	End	3337
Name	OJ991019_16.0118.C21.o1.np	Method	AAT/NAP
Start	1	End	2391
GI	4220521	Score	558
Exons	1..105, 196..345, 447..629, 680..869, 977..1070, 1314..1428, 1522..1591, 1736..2391		
GI Descrip.	(AL035356) putative protein [Arabidopsis thaliana]		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77049	Strand	-
Start	1	End	3337
Name	OJ991019_16.0118.C21.o1.gs	Method	GENSCAN
Start	273	End	3337
GI	none	Score	.72
Exons	273..420, 447..659, 755..869, 977..2358, 3275..3337		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77050	Strand	-
Start	13239	End	13724
Name	OJ991019_16.0118.C21.o3.gs	Method	GENSCAN
Start	13239	End	13724
GI	none	Score	.87
Exons	13239..13724		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o1.tm	Method	TBLASTX:Maize
Start	3	End	2082
GI	none	Score	45
Exons	3..116, 4..117, 193..348, 193..351, 444..656, 450..617, 451..636, 764..868, 765..866, 979..1095, 983..1096, 1017..1127, 1817..1843, 1870..1920, 1872..1934, 1948..2082, 1960..2043		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o1.ts	Method	TBLASTX:Soybean
Start	181	End	1080
GI	none	Score	71
Exons	181..351, 194..286, 442..606, 444..668, 445..669, 788..868, 792..866, 982..1080		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o2.tc	Method	TBLASTX:Cress
Start	181	End	600
GI	none	Score	78
Exons	181..351, 193..336, 444..599, 450..593, 475..600		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o6.tm	Method	TBLASTX:Maize
Start	2110	End	2364
GI	none	Score	110

Exons 2110..2154, 2116..2364, 2218..2364

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o3.tc	Method	TBLASTX:Cress
Start	7911	End	8540
GI	none	Score	70
Exons	7911..7976, 8226..8285, 8304..8456, 8478..8540		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o4.ts	Method	TBLASTX:Soybean
Start	8187	End	8588
GI	none	Score	41
Exons	8187..8291, 8304..8588, 8348..8539		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o4.tm	Method	TBLASTX:Maize
Start	8223	End	8540
GI	none	Score	262
Exons	8223..8540, 8351..8527		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o1.tw	Method	TBLASTX:Wheat
Start	8283	End	8585
GI	none	Score	245
Exons	8283..8585, 8351..8566		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o6.ts	Method	TBLASTX:Soybean
Start	8679	End	9080
GI	none	Score	93
Exons	8679..8801, 8883..9080, 8885..9076		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o2.tm	Method	TBLASTX:Maize
Start	8757	End	9253
GI	none	Score	75
Exons	8757..8816, 8763..8825, 8764..8823, 8885..9076, 8886..9080, 9041..9253, 9081..9251, 9149..9253		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o5.tm	Method	TBLASTX:Maize
Start	9264	End	9708
GI	none	Score	54

Exons 9264..9338, 9342..9452, 9356..9454, 9552..9650, 9565..9705, 9580..9708

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o5.ts	Method	TBLASTX:Soybean
Start	9336	End	9780
GI	none	Score	93
Exons	9336..9452, 9371..9448, 9562..9780, 9571..9699		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o4.tc	Method	TBLASTX:Cress
Start	9378	End	9729
GI	none	Score	70
Exons	9378..9452, 9565..9717, 9613..9729		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o4.np	Method	AAT/NAP
Start	15069	End	17956
GI	4335729	Score	926
Exons	15069..16323, 17902..17956		
GI Descrip.	(AC006248) putative salt-inducible protein [Arabidopsis thaliana]		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o1.tc	Method	TBLASTX:Cress
Start	15094	End	16274
GI	none	Score	75
Exons	15094..15294, 15099..15287, 15102..15467, 15102..15401, 15103..15408, 15178..15285, 15180..15395, 15199..15459, 15202..15564, 15207..15581, 15285..15500, 15309..15674, 15313..15714, 15378..15590, 15417..15767, 15483..15695, 15510..15926, 15522..15848, 15565..15867, 15600..15809, 15630..15986, 15631..15981, 15693..15920, 15732..15998, 15798..15983, 15831..16004, 15981..16085, 15990..16085, 16023..16121, 16095..16193, 16104..16193, 16128..16217, 16134..16214, 16182..16274, 16194..16274		

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o2.ts	Method	TBLASTX:Soybean
Start	15102	End	16274
GI	none	Score	107
Exons	15102..15860, 15102..15470, 15103..15453, 15108..15563, 15123..16094, 15138..15302, 15261..15434, 15313..15831, 15313..15669, 15471..15641, 15526..15813, 15667..15978, 15741..15998, 15987..16196, 15987..16079, 16095..16220, 16095..16196, 16197..16274		



Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o3.tm	Method	TBLASTX:Maize
Start	15109	End	16196
GI	none	Score	76

Exons 15109..15300, 15154..15405, 15156..15404, 15261..15509, 15357..15620, 15462..15725, 15468..15710, 15469..15720, 15567..15824, 15672..15932, 15912..15992, 16098..16196

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o5.np	Method	AAT/NAP
Start	16240	End	16663
GI	119711	Score	78

Exons 16240..16514, 16579..16663  
 GI Descrip. EXTENSIN PRECURSOR gi|82047|pir||A24354 extensin precursor - carrot gi|18343|emb|CAA26632| (X02873) put. precursor [Daucus carota] gi|224686|prf||1111211A extensin [Daucus carota]

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o6.np	Method	AAT/NAP
Start	17426	End	18469
GI	2842493	Score	359

Exons 17426..17596, 17802..18199, 18295..18469  
 GI Descrip. (AL021749) predicted protein [Arabidopsis thaliana]

Seq. No.	37532	Seq. ID	OJ991019_16.0118.C21
Gene No.	77051	Strand	-
Start	15069	End	19050
Name	OJ991019_16.0118.C21.o3.ts	Method	TBLASTX:Soybean
Start	17980	End	19050
GI	none	Score	75

Exons 17980..18060, 18054..18131, 18108..18206, 18115..18213, 18290..18484, 18293..18481, 18494..19050

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77052	Strand	+
Start	4124	End	4748
Name	OJ991019_16.0118.C22.o1.gp	Method	AAT/GAP
Start	4124	End	4748
GI	40260_1.R1084	Score	1238

Exons 4124..4748  
 GI Descrip. '6016720/gb|AAF01546.1|AC009325\_16.2.0e-35 (AC009325) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o1.np	Method	AAT/NAP
Start	2437	End	3935
GI	5852093	Score	66

Exons 2437..2659, 3818..3935  
 GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o2.gs	Method	GENSCAN
Start	2687	End	5422
GI	none	Score	.54
Exons	2687..3056, 4563..5422		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o1.tm	Method	TBLASTX:Maize
Start	4410	End	5633
GI	none	Score	1278
Exons	4410..4463, 4538..5632, 4542..5633		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o1.tw	Method	TBLASTX:Wheat
Start	4412	End	4929
GI	none	Score	361
Exons	4412..4435, 4431..4481, 4532..4924, 4538..4924, 4539..4928, 4540..4929		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o2.np	Method	AAT/NAP
Start	4541	End	5704
GI	4850383	Score	1454
Exons	4541..5704		
GI Descrip.	(AC007357) Contains similarity to gi 4417304 F15011.7 putative beta-1,4-mannosyl-glycoprotein beta-1,4-N-acetylglucosaminyltransferase from Arabidopsis thaliana BAC gb AC006446.		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o1.ts	Method	TBLASTX:Soybean
Start	4544	End	5407
GI	none	Score	704
Exons	4544..5401, 4548..5399, 4550..5407		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o2.gp	Method	AAT/GAP
Start	4666	End	5081
GI	701393	Score	689
Exons	4666..5081		
GI Descrip.	6016720/gb AAF01546.1 AC009325_16 2.0e-35 (AC009325) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
----------	-------	---------	----------------------

Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o1.tc	Method	TBLASTX:Cress
Start	4830	End	5296
GI	none	Score	401
Exons	4830..5288, 4832..5296, 4835..5290		

Seq. No.	37533	Seq. ID	OJ991019_16.0118.C22
Gene No.	77053	Strand	-
Start	2437	End	5704
Name	OJ991019_16.0118.C22.o2.ts	Method	TBLASTX:Soybean
Start	5408	End	5636
GI	none	Score	101
Exons	5408..5632, 5409..5636		

Seq. No.	37534	Seq. ID	OJ991019_16.0118.C23
Gene No.	77054	Strand	-
Start	169	End	561
Name	OJ991019_16.0118.C23.o1.gp	Method	AAT/GAP
Start	169	End	561
GI	29813 1.R1084	Score	761
Exons	169..561		

GI Descrip. '6016720/gb|AAE01546.1|AC009325\_16.1.0e-29 (AC009325)  
hypothetical protein [Arabidopsis thaliana]'

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+
Start	5235	End	21106
Name	OJ991019_16.0118.C25.o1.np	Method	AAT/NAP
Start	5229	End	18934
GI	118120	Score	108
Exons	5229..5325, 6809..6953, 8659..8746, 18903..18934		
GI Descrip.	CYSTEINE PROTEINASE EP-B 1 PRECURSOR gi 82385 pir  JQ1111 cysteine proteinase (EC 3.4.22.-) EP-B 1 precursor - barley gi 1146116 (U19359) cysteine proteinase EPB1 precursor [Hordeum vulgare]		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+
Start	5235	End	21106
Name	OJ991019_16.0118.C25.o2.gs	Method	GENSCAN
Start	5235	End	7170
GI	none	Score	.88
Exons	5235..5535, 5886..5969, 6788..7170		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+
Start	5235	End	21106
Name	OJ991019_16.0118.C25.o1.gp	Method	AAT/GAP
Start	8054	End	8743
GI	36126 1.R1084	Score	1136
Exons	8054..8743		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-09 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+

Start	5235	End	21106
Name	OJ991019_16.0118.C25.o3.gs	Method	GENSCAN
Start	8248	End	9271
GI	none	Score	.87
Exons	8248..8386, 8700..9271		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+
Start	5235	End	21106
Name	OJ991019_16.0118.C25.o3.np	Method	AAT/NAP
Start	13618	End	21106
GI	4680203	Score	1556
Exons	13618..13638, 15802..16673, 20608..21106		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+
Start	5235	End	21106
Name	OJ991019_16.0118.C25.o4.gp	Method	AAT/GAP
Start	15806	End	16675
GI	342_1.R1084	Score	1264
Exons	15806..16675		

GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77055	Strand	+
Start	5235	End	21106
Name	OJ991019_16.0118.C25.o5.gp	Method	AAT/GAP
Start	19519	End	20042
GI	LIB3434-038-P1-K1-F1	Score	768
Exons	19519..20042		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77056	Strand	-
Start	8902	End	9328
Name	OJ991019_16.0118.C25.o2.gp	Method	AAT/GAP
Start	8902	End	9328
GI	58838_1.R1084	Score	823
Exons	8902..9328		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77057	Strand	-
Start	10233	End	14569
Name	OJ991019_16.0118.C25.o4.gs	Method	GENSCAN
Start	10233	End	14457
GI	none	Score	.8
Exons	10233..10307, 10337..10418, 10582..10781, 10889..11031, 11568..11632, 12269..12356, 12442..12546, 12747..12866, 12955..13168, 14009..14168, 14402..14457		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77057	Strand	-

Start	10233	End	14569
Name	OJ991019_16.0118.C25.o2.np	Method	AAT/NAP
Start	12467	End	14569
GI	6522532	Score	142
Exons	12467..12606, 12801..12866, 12955..13168, 14443..14569		
GI Descrip.	(AL132955) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77058	Strand	
Start	16092	End	16565
Name	OJ991019_16.0118.C25.o2.tw	Method	TBLASTX:Wheat
Start	16092	End	16503
GI	none	Score	93
Exons	16092..16247, 16154..16261, 16244..16360, 16252..16347, 16362..16493, 16368..16472, 16369..16503, 16370..16492		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77058	Strand	
Start	16092	End	16565
Name	OJ991019_16.0118.C25.o1.ts	Method	TBLASTX:Soybean
Start	16358	End	16565
GI	none	Score	178
Exons	16358..16489, 16362..16493, 16500..16565		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77059	Strand	
Start	16593	End	21093
Name	OJ991019_16.0118.C25.o1.tc	Method	TBLASTX:Cress
Start	16593	End	20868
GI	none	Score	85
Exons	16593..16667, 20617..20868, 20619..20672, 20721..20849		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77059	Strand	
Start	16593	End	21093
Name	OJ991019_16.0118.C25.o1.tw	Method	TBLASTX:Wheat
Start	20656	End	21093
GI	none	Score	69
Exons	20656..20712, 20664..20708, 20709..20810, 20710..20814, 20818..20916, 20823..20912, 20896..21093, 20919..21080		

Seq. No.	37535	Seq. ID	OJ991019_16.0118.C25
Gene No.	77059	Strand	
Start	16593	End	21093
Name	OJ991019_16.0118.C25.o1.tm	Method	TBLASTX:Maize
Start	20703	End	21093
GI	none	Score	228
Exons	20703..20954, 20713..20955, 20965..21093		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77060	Strand	+
Start	1	End	1891
Name	OJ991019_16.0118.C26.o1.np	Method	AAT/NAP
Start	1	End	1332
GI	6742729	Score	2096
Exons	1..1332		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77060	Strand	+
Start	1	End	1891
Name	OJ991019_16.0118.C26.o1.gs	Method	GENSCAN
Start	97	End	1891
GI	none	Score	.51
Exons	97..331, 363..1891		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77061	Strand	-
Start	1510	End	1946
Name	OJ991019_16.0118.C26.o2.tw	Method	TBLASTX:Wheat
Start	87	End	498
GI	none	Score	92
Exons	87..188, 88..159, 136..378, 159..338, 412..498, 413..496		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77061	Strand	-
Start	1510	End	1946
Name	OJ991019_16.0118.C26.o1.tm	Method	TBLASTX:Maize
Start	476	End	856
GI	none	Score	42
Exons	476..526, 542..856, 553..828		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77061	Strand	-
Start	1510	End	1946
Name	OJ991019_16.0118.C26.o1.tw	Method	TBLASTX:Wheat
Start	499	End	1816
GI	none	Score	881
Exons	499..1401, 500..1417, 1410..1451, 1412..1456, 1463..1522, 1501..1641, 1502..1642, 1655..1735, 1721..1816, 1750..1815		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77061	Strand	-
Start	1510	End	1946
Name	OJ991019_16.0118.C26.o1.tc	Method	TBLASTX:Cress
Start	787	End	1234
GI	none	Score	159
Exons	787..1224, 787..1230, 791..1234, 1085..1234		

Seq. No.	37536	Seq. ID	OJ991019_16.0118.C26
Gene No.	77061	Strand	-
Start	1510	End	1946
Name	OJ991019_16.0118.C26.o1.gp	Method	AAT/GAP
Start	1510	End	1946
GI	LIB3431-028-P1-N1-A10	Score	732
Exons	1510..1856, 1884..1946		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77062	Strand	+
Start	37	End	387
Name	OJ991019_16.0118.C27.o1.gs	Method	GENSCAN
Start	37	End	387

GI	none	Score	.86
Exons	37..387		
Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77063	Strand	+
Start	1797	End	5539
Name	OJ991019_16.0118.C27.o1.np	Method	AAT/NAP
Start	1782	End	5482
GI	4680204	Score	1046
Exons	1782..3212, 3308..4461, 4554..4721, 4816..4948, 5300..5482		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77063	Strand	+
Start	1797	End	5539
Name	OJ991019_16.0118.C27.o2.gs	Method	GENSCAN
Start	1797	End	3026
GI	none	Score	.8
Exons	1797..3026		
Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77063	Strand	+
Start	1797	End	5539
Name	OJ991019_16.0118.C27.o3.gs	Method	GENSCAN
Start	3302	End	5539
GI	none	Score	.67
Exons	3302..3449, 3744..4301, 4547..4721, 4816..4926, 5012..5084, 5179..5277, 5357..5539		
Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77064	Strand	+
Start	5666	End	5773
Name	OJ991019_16.0118.C27.o1.tw	Method	TBLASTX:Wheat
Start	2417	End	2822
GI	none	Score	64
Exons	2417..2689, 2419..2559, 2421..2657, 2597..2665, 2652..2822, 2705..2821		
Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77064	Strand	+
Start	5666	End	5773
Name	OJ991019_16.0118.C27.o2.tw	Method	TBLASTX:Wheat
Start	2823	End	3520
GI	none	Score	61
Exons	2823..2903, 3144..3218, 3301..3399, 3302..3520		
Seq. No.	37537	Seq. ID	OJ991019_16.0118.C27
Gene No.	77064	Strand	+
Start	5666	End	5773
Name	OJ991019_16.0118.C27.o1.gp	Method	AAT/GAP
Start	5666	End	5773
GI	LIB3477-003-P1-K1-E9	Score	98
Exons	5666..5773		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37538	Seq. ID	OJ991019_16.0118.C29
Gene No.	77065	Strand	+
Start	1	End	693
Name	OJ991019_16.0118.C29.o1.np	Method	AAT/NAP
Start	1	End	693
GI	6498436	Score	259
Exons	1..31, 380..693		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	37538	Seq. ID	OJ991019_16.0118.C29
Gene No.	77065	Strand	+
Start	1	End	693
Name	OJ991019_16.0118.C29.o1.gs	Method	GENSCAN
Start	127	End	420
GI	none	Score	.85
Exons	127..141, 319..420		

Seq. No.	37539	Seq. ID	OJ991019_16.0118.C30
Gene No.	77066	Strand	+
Start	559	End	693
Name	OJ991019_16.0118.C30.o1.gs	Method	GENSCAN
Start	559	End	693
GI	none	Score	.47
Exons	559..693		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77067	Strand	+
Start	696	End	1185
Name	OJ991119_17.0126.C1.o1.gs	Method	GENSCAN
Start	696	End	1185
GI	none	Score	.7
Exons	696..1072, 1170..1185		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o1.gp	Method	AAT/GAP
Start	2025	End	2492
GI	none	Score	862
Exons	2025..2492		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o2.tm	Method	TBLASTX:Maize
Start	2239	End	2490
GI	none	Score	239
Exons	2239..2454, 2265..2291, 2272..2451, 2286..2453, 2295..2456, 2445..2483, 2451..2483, 2458..2490		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o2.gs	Method	GENSCAN
Start	2274	End	6751
GI	none	Score	.44
Exons	2274..3632, 5007..5279, 6623..6751		



Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o3.tm	Method	TBLASTX:Maize
Start	3011	End	3328
GI	none	Score	197
Exons	3011..3235, 3016..3243, 3110..3244, 3136..3240, 3243..3326, 3244..3327, 3257..3328		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o2.gp	Method	AAT/GAP
Start	3398	End	5220
GI	LIB3432-021-P1-K1-E6	Score	895
Exons	3398..3658, 5007..5220		
GI Descrip.	'3128209 7.0e-40 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o1.ts	Method	TBLASTX:Soybean
Start	3602	End	6757
GI	none	Score	53
Exons	3602..3667, 4992..5051, 4993..5037, 5040..5279, 5040..5279, 5093..5302, 6662..6757		

Seq. No.	37540	Seq. ID	OJ991119_17.0126.C1
Gene No.	77068	Strand	-
Start	2274	End	6760
Name	OJ991119_17.0126.C1.o1.tm	Method	TBLASTX:Maize
Start	4992	End	6760
GI	none	Score	251
Exons	4992..5276, 4996..5277, 5003..5281, 6620..6760, 6642..6755		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77069	Strand	+
Start	12138	End	13198
Name	OJ991119_17.0126.C2.o2.gs	Method	GENSCAN
Start	12138	End	13198
GI	none	Score	.76
Exons	12138..12265, 12982..13198		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77070	Strand	-
Start	5647	End	9130
Name	OJ991119_17.0126.C2.o1.np	Method	AAT/NAP
Start	5647	End	9083
GI	6735376	Score	1105
Exons	5647..7608, 9060..9083		
GI Descrip.	(AL137082) putative protein [Arabidopsis thaliana]		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77070	Strand	-
Start	5647	End	9130

Name	OJ991119_17.0126.C2.o2.np	Method	AAT/NAP
Start	5688	End	9130
GI	5734776	Score	533
Exons	5688..6223, 6611..6940, 7226..7560, 9094..9130		
GI Descrip.	(AC007980) 53021 [Arabidopsis thaliana]		

  

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77070	Strand	-
Start	5647	End	9130
Name	OJ991119_17.0126.C2.o1.gp	Method	AAT/GAP
Start	6395	End	6825
GI	286328	Score	849
Exons	6395..6825		
GI Descrip.	5923669/gb AAD56320.1 AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77071	Strand	-
Start	13296	End	13583
Name	OJ991119_17.0126.C2.o3.gs	Method	GENSCAN
Start	13296	End	13583
GI	none	Score	96
Exons	13296..13583		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o1.tm	Method	TBLASTX:Maize
Start	5573	End	5937
GI	none	Score	82
Exons	5573..5641, 5573..5644, 5713..5937, 5714..5935		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o1.ts	Method	TBLASTX:Soybean
Start	5714	End	7338
GI	none	Score	110
Exons	5714..6034, 5722..6054, 5722..6054, 6178..6348, 6892..7038, 7183..7338		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o1.tc	Method	TBLASTX:Cress
Start	5782	End	7539
GI	none	Score	212
Exons	5782..5847, 5851..6312, 5852..6244, 6208..6426, 6700..6819, 6895..7119, 7020..7055, 7161..7199, 7183..7458, 7486..7539		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o1.tw	Method	TBLASTX:Wheat
Start	5810	End	7401
GI	none	Score	97
Exons	5810..6100, 5815..6114, 5815..6114, 6178..6420, 6706..6981,		

6737..6940, 6892..7218, 7183..7401

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o3.tm	Method	TBLASTX:Maize
Start	5938	End	7413
GI	none	Score	62
Exons	5938..6150, 5953..6126, 6043..6114, 6154..6432, 6736..7113, 6737..6934, 7183..7413, 7184..7372		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o4.gs	Method	GENSCAN
Start	14260	End	17184
GI	none	Score	.56
Exons	14260..14347, 14834..15355, 16223..16354, 16493..17184		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o2.gp	Method	AAT/GAP
Start	15773	End	17277
GI	53.1.R1084	Score	2416
Exons	15773..16137, 16223..16354, 16493..17277		
GI Descrip.	'2992160/dbj BAA25325  1.0e-116 (AB012392) MuDR-like element [Oryza sativa]'		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o4.np	Method	AAT/NAP
Start	15948	End	17277
GI	4680209	Score	96
Exons	15948..16025, 17106..17277		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o3.np	Method	AAT/NAP
Start	15978	End	16965
GI	2992160	Score	1279
Exons	15978..16137, 16223..16354, 16493..16965		
GI Descrip.	(AB012392) MuDR-like element [Oryza sativa]		

Seq. No.	37541	Seq. ID	OJ991119_17.0126.C2
Gene No.	77072	Strand	-
Start	14260	End	17277
Name	OJ991119_17.0126.C2.o2.tm	Method	TBLASTX:Maize
Start	16816	End	17254
GI	none	Score	61
Exons	16816..16869, 16829..16870, 16921..17019, 17023..17253, 17063..17254		

Seq. No.	37542	Seq. ID	OJ991119_17.0126.C3
----------	-------	---------	---------------------

Gene No.	77073	Strand	-
Start	919	End	983
Name	OJ991119_17.0126.C3.o1.gp	Method	AAT/GAP
Start	919	End	983
GI	2312838	Score	71
Exons	919..983		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		
Seq. No.	37542	Seq. ID	OJ991119_17.0126.C3
Gene No.	77074	Strand	-
Start	1489	End	1739
Name	OJ991119_17.0126.C3.o2.gp	Method	AAT/GAP
Start	1489	End	1739
GI	21784_1.R1084	Score	439
Exons	1489..1739		
GI Descrip.	'3128209 2.0e-23 (AC004077) unknown protein [Arabidopsis thaliana]'		
Seq. No.	37543	Seq. ID	OJ991119_17.0126.C4
Gene No.	77075	Strand	+
Start	312	End	2959
Name	OJ991119_17.0126.C4.o1.gp	Method	AAT/GAP
Start	312	End	588
GI	none	Score	534
Exons	312..588		
Seq. No.	37543	Seq. ID	OJ991119_17.0126.C4
Gene No.	77075	Strand	+
Start	312	End	2959
Name	OJ991119_17.0126.C4.o1.gs	Method	GENSCAN
Start	419	End	2956
GI	none	Score	.56
Exons	419..700, 823..904, 2661..2763, 2872..2956		
Seq. No.	37543	Seq. ID	OJ991119_17.0126.C4
Gene No.	77075	Strand	+
Start	312	End	2959
Name	OJ991119_17.0126.C4.o2.gp	Method	AAT/GAP
Start	595	End	2959
GI	31400_1.R1084	Score	897
Exons	595..700, 823..904, 2288..2382, 2520..2591, 2684..2763, 2872..2959		
GI Descrip.	'3212854 1.0e-21 (AC004005) unknown protein [Arabidopsis thaliana]'		
Seq. No.	37544	Seq. ID	OJ991119_17.0126.C5
Gene No.	77076	Strand	+
Start	76	End	6996
Name	OJ991119_17.0126.C5.o1.gp	Method	AAT/GAP
Start	76	End	1879
GI	37717_1.R1084	Score	1516
Exons	76..158, 250..477, 726..825, 1441..1879		
GI Descrip.	'3212854 6.0e-11 (AC004005) unknown protein [Arabidopsis thaliana]'		
Seq. No.	37544	Seq. ID	OJ991119_17.0126.C5

Gene No.	77076	Strand	+
Start	76	End	6996
Name	OJ991119_17.0126.C5.o1.gs	Method	GENSCAN
Start	96	End	6996
GI	none	Score	.54
Exons	96..158, 250..477, 726..825, 1441..1542, 3945..4284, 4289..4348, 5849..5940, 6084..6163, 6784..6996		

Seq. No.	37544	Seq. ID	OJ991119_17.0126.C5
Gene No.	77076	Strand	+
Start	76	End	6996
Name	OJ991119_17.0126.C5.o1.np	Method	AAT/NAP
Start	3297	End	3380
GI	5852084	Score	76
Exons	3297..3380		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	37545	Seq. ID	OJ991119_17.0126.C6
Gene No.	77077	Strand	+
Start	21	End	203
Name	OJ991119_17.0126.C6.o1.gs	Method	GENSCAN
Start	21	End	203
GI	none	Score	.61
Exons	21..203		

Seq. No.	37545	Seq. ID	OJ991119_17.0126.C6
Gene No.	77078	Strand	-
Start	1793	End	4455
Name	OJ991119_17.0126.C6.o2.gs	Method	GENSCAN
Start	1793	End	4405
GI	none	Score	.88
Exons	1793..1938, 2683..2809, 3228..3605, 3757..3847, 3978..4405		

Seq. No.	37545	Seq. ID	OJ991119_17.0126.C6
Gene No.	77078	Strand	-
Start	1793	End	4455
Name	OJ991119_17.0126.C6.o1.np	Method	AAT/NAP
Start	2379	End	4455
GI	6735324	Score	423
Exons	2379..2524, 2683..2809, 3757..4455		
GI Descrip.	(AL137081) putative protein [Arabidopsis thaliana]		

Seq. No.	37545	Seq. ID	OJ991119_17.0126.C6
Gene No.	77078	Strand	-
Start	1793	End	4455
Name	OJ991119_17.0126.C6.o1.tm	Method	TBLASTX:Maize
Start	2431	End	2815
GI	none	Score	65
Exons	2431..2523, 2457..2528, 2467..2529, 2670..2807, 2678..2815, 2680..2811, 2714..2815		

Seq. No.	37546	Seq. ID	OJ991119_17.0126.C7
Gene No.	77079	Strand	+
Start	196	End	573
Name	OJ991119_17.0126.C7.o1.gs	Method	GENSCAN
Start	196	End	573
GI	none	Score	.7

Exons 196..573

Seq. No.	37546	Seq. ID	OJ991119_17.0126.C7
Gene No.	77080	Strand	-
Start	1905	End	2146
Name	OJ991119_17.0126.C7.o2.gs	Method	GENSCAN
Start	1905	End	2146
GI	none	Score	.97
Exons	1905..2039, 2090..2146		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77081	Strand	+
Start	1	End	2667
Name	OJ991119_17.0126.C8.o2.np	Method	AAT/NAP
Start	1	End	2667
GI	81286	Score	154
Exons	1..56, 743..890, 2226..2667		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o1.np	Method	AAT/NAP
Start	1	End	1981
GI	4138596	Score	489
Exons	1..228, 349..648, 1961..1981		
GI Descrip.	(Y16242) beta-amylase [Triticum aestivum]		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o1.tc	Method	TBLASTX:Cress
Start	2	End	591
GI	none	Score	73
Exons	2..94, 3..74, 69..152, 73..153, 106..228, 137..232, 343..492, 359..493, 502..591, 518..589		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o1.tm	Method	TBLASTX:Maize
Start	2	End	591
GI	none	Score	85
Exons	2..94, 3..95, 69..152, 73..153, 106..228, 107..232, 156..230, 343..492, 353..493, 499..591, 530..589		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o1.ts	Method	TBLASTX:Soybean
Start	2	End	670
GI	none	Score	64
Exons	2..94, 3..74, 69..152, 72..149, 73..153, 106..228, 116..226, 340..396, 343..492, 353..493, 502..588, 518..670		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
----------	-------	---------	---------------------

Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o2.tw	Method	TBLASTX:Wheat
Start	2	End	152
GI	none	Score	83
Exons	2..94, 3..98, 69..152, 73..147		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o1.gs	Method	GENSCAN
Start	150	End	2740
GI	none	Score	.74
Exons	150..228, 349..473, 562..702, 734..866, 2636..2740		

Seq. No.	37547	Seq. ID	OJ991119_17.0126.C8
Gene No.	77082	Strand	-
Start	1	End	2740
Name	OJ991119_17.0126.C8.o1.tw	Method	TBLASTX:Wheat
Start	154	End	591
GI	none	Score	54
Exons	154..228, 155..226, 157..231, 343..492, 362..493, 499..591, 530..589		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77083	Strand	+
Start	105	End	2457
Name	OJ991119_17.0126.C10.o1.gs	Method	GENSCAN
Start	105	End	2457
GI	none	Score	.73
Exons	105..737, 870..1146, 1469..1563, 2050..2136, 2425..2457		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77084	Strand	-
Start	7912	End	8637
Name	OJ991119_17.0126.C10.o3.gs	Method	GENSCAN
Start	7912	End	8628
GI	none	Score	1
Exons	7912..8628		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77084	Strand	-
Start	7912	End	8637
Name	OJ991119_17.0126.C10.o1.tw	Method	TBLASTX:Wheat
Start	7981	End	8272
GI	none	Score	42
Exons	7981..8121, 8027..8122, 8140..8271, 8141..8272		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77084	Strand	-
Start	7912	End	8637
Name	OJ991119_17.0126.C10.o1.np	Method	AAT/NAP
Start	8105	End	8610
GI	3873408	Score	141
Exons	8105..8610		
GI Descrip.	(L76926) putative zinc finger protein [Arabidopsis thaliana]		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77084	Strand	-
Start	7912	End	8637
Name	OJ991119_17.0126.C10.o2.tm	Method	TBLASTX:Maize
Start	8143	End	8286
GI	none	Score	122
Exons	8143..8286, 8144..8269		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77084	Strand	-
Start	7912	End	8637
Name	OJ991119_17.0126.C10.o1.tc	Method	TBLASTX:Cress
Start	8152	End	8385
GI	none	Score	87
Exons	8152..8289, 8153..8287, 8275..8385		

Seq. No.	37548	Seq. ID	OJ991119_17.0126.C10
Gene No.	77084	Strand	-
Start	7912	End	8637
Name	OJ991119_17.0126.C10.o1.tm	Method	TBLASTX:Maize
Start	8323	End	8637
GI	none	Score	44
Exons	8323..8394, 8333..8368, 8446..8568, 8483..8569, 8545..8637, 8546..8629		

Seq. No.	37549	Seq. ID	OJ991119_17.0126.C12
Gene No.	77085	Strand	-
Start	2231	End	3327
Name	OJ991119_17.0126.C12.o1.np	Method	AAT/NAP
Start	2231	End	3148
GI	3243274	Score	287
Exons	2231..3148		
GI Descrip.	(AF072134) TCP3 [Arabidopsis thaliana]		

Seq. No.	37549	Seq. ID	OJ991119_17.0126.C12
Gene No.	77085	Strand	-
Start	2231	End	3327
Name	OJ991119_17.0126.C12.o1.tc	Method	TBLASTX:Cress
Start	2677	End	3069
GI	none	Score	62
Exons	2677..2736, 2878..3060, 2884..3069, 2927..3064		

Seq. No.	37549	Seq. ID	OJ991119_17.0126.C12
Gene No.	77085	Strand	-
Start	2231	End	3327
Name	OJ991119_17.0126.C12.o1.ts	Method	TBLASTX:Soybean
Start	2881	End	3078
GI	5606956	Score	233
Exons	2881..3078		
GI Descrip.	-		

Seq. No.	37549	Seq. ID	OJ991119_17.0126.C12
Gene No.	77085	Strand	-
Start	2231	End	3327
Name	OJ991119_17.0126.C12.o1.gp	Method	AAT/GAP
Start	3014	End	3327
GI	2442643	Score	561



Exons 3014..3327

Seq. No.	37550	Seq. ID	OJ991119_17.0126.C13
Gene No.	77086	Strand	+
Start	3331	End	7391
Name	OJ991119_17.0126.C13.o2.gs	Method	GENSCAN
Start	3331	End	7391
GI	none	Score	.76
Exons	3331..3388, 3654..3774, 3853..4038, 4153..4365, 4449..4952, 5472..5603, 5976..6239, 6346..6517, 7296..7391		

Seq. No.	37550	Seq. ID	OJ991119_17.0126.C13
Gene No.	77086	Strand	+
Start	3331	End	7391
Name	OJ991119_17.0126.C13.o1.tm	Method	TBLASTX:Maize
Start	3332	End	3944
GI	none	Score	67
Exons	3332..3412, 3654..3773, 3654..3773, 3655..3810, 3656..3802, 3854..3943, 3854..3943, 3855..3944		

Seq. No.	37550	Seq. ID	OJ991119_17.0126.C13
Gene No.	77086	Strand	+
Start	3331	End	7391
Name	OJ991119_17.0126.C13.o2.tm	Method	TBLASTX:Maize
Start	5246	End	5601
GI	none	Score	103
Exons	5246..5287, 5292..5378, 5294..5383, 5297..5389, 5313..5387, 5469..5579, 5470..5601, 5470..5598, 5471..5599		

Seq. No.	37551	Seq. ID	OJ991119_17.0126.C14
Gene No.	77087	Strand	+
Start	1	End	402
Name	OJ991119_17.0126.C14.o1.np	Method	AAT/NAP
Start	1	End	402
GI	2832654	Score	117
Exons	1..31, 292..402		
GI Descrip.	(AL021710) chloroplast protein cs/ch-42 [Arabidopsis thaliana]		

Seq. No.	37551	Seq. ID	OJ991119_17.0126.C14
Gene No.	77088	Strand	+
Start	494	End	1106
Name	OJ991119_17.0126.C14.o1.gs	Method	GENSCAN
Start	494	End	1106
GI	none	Score	.51
Exons	494..556, 990..1106		

Seq. No.	37552	Seq. ID	OJ991119_17.0126.C15
Gene No.	77089	Strand	+
Start	154	End	2311
Name	OJ991119_17.0126.C15.o1.gs	Method	GENSCAN
Start	154	End	2311
GI	none	Score	.47
Exons	154..222, 304..605, 2175..2311		

Seq. No.	37552	Seq. ID	OJ991119_17.0126.C15
Gene No.	77090	Strand	-
Start	3429	End	3574

Name	OJ991119_17.0126.C15.o2.gs	Method	GENSCAN
Start	3429	End	3574
GI	none	Score	.54
Exons	3429..3574		
Seq. No.	37553	Seq. ID	OJ991119_17.0126.C16
Gene No.	77091	Strand	-
Start	106	End	637
Name	OJ991119_17.0126.C16.o1.gs	Method	GENSCAN
Start	106	End	637
GI	none	Score	.4
Exons	106..196, 583..637		
Seq. No.	37554	Seq. ID	OJ991119_17.0126.C17
Gene No.	77092	Strand	+
Start	43	End	662
Name	OJ991119_17.0126.C17.o1.gs	Method	GENSCAN
Start	43	End	662
GI	none	Score	.54
Exons	43..662		

Seq. No.	37554	Seq. ID	OJ991119_17.0126.C17
Gene No.	77092	Strand	+
Start	43	End	662
Name	OJ991119_17.0126.C17.o1.np	Method	AAT/NAP
Start	376	End	619
GI	6721515	Score	98
Exons	376..619		
GI Descrip.	(AP001072) Similar to mudrA. (M76978) [Oryza sativa]		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77093	Strand	+
Start	215	End	6365
Name	OJ991029_13.0120.C1.o1.gs	Method	GENSCAN
Start	215	End	6365
GI	none	Score	.57
Exons	215..601, 680..1141, 1223..1765, 2013..2054, 2174..2307, 2474..2645, 3084..3122, 6144..6365		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77093	Strand	+
Start	215	End	6365
Name	OJ991029_13.0120.C1.o1.gp	Method	AAT/GAP
Start	2463	End	2983
GI	LIB3431-001-P1-N1-B5	Score	758
Exons	2463..2645, 2751..2983		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77094	Strand	+
Start	25271	End	25359
Name	OJ991029_13.0120.C1.o3.gp	Method	AAT/GAP
Start	25271	End	25359
GI	5867_1.R1084	Score	133
Exons	25271..25359		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING		

ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi\_421857\_pir\_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi\_297884\_emb\_CAA78714 (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi\_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77095	Strand	-
Start	7314	End	11098
Name	OJ991029_13.0120.C1.o2.gs	Method	GENSCAN
Start	7314	End	10475
GI	none	Score	.45
Exons	7314..7384, 7951..9540, 9712..9994, 10163..10334, 10408..10475		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77095	Strand	-
Start	7314	End	11098
Name	OJ991029_13.0120.C1.o1.np	Method	AAT/NAP
Start	7784	End	11098
GI	2864613	Score	824
Exons	7784..9147, 9298..10018, 11071..11098		

GI Descrip. (AL021811) S-receptor kinase-like protein [Arabidopsis thaliana] gi|4049333|emb|CAA22558.1| (AL034567) S-receptor kinase-like protein [Arabidopsis thaliana]

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77095	Strand	-
Start	7314	End	11098
Name	OJ991029_13.0120.C1.o3.np	Method	AAT/NAP
Start	7914	End	10312
GI	3834312	Score	165
Exons	7914..7937, 9638..10312		
GI Descrip.	(AC005679) Strong similarity to glycoprotein EP1 gb L16983 Daucus carota and a member of S locus glycoprotein family PF 00954. ESTs gb AA067487, gb Z35737, gb Z30815, gb Z35350, gb AA713171, gb AI100553, gb Z34248, gb AA728536, gb Z30816 an...		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77095	Strand	-
Start	7314	End	11098
Name	OJ991029_13.0120.C1.o2.np	Method	AAT/NAP
Start	8918	End	9127
GI	688421	Score	133
Exons	8918..9127		
GI Descrip.	(D26458) tumor-related protein [Nicotiana glauca X Nicotiana langsdorffii]		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o2.tw	Method	TBLASTX:Wheat
Start	275	End	30049
GI	none	Score	65
Exons	275..418, 737..793, 29646..29816, 29647..29721, 29806..29946, 29811..30047, 29853..30047, 29909..30049, 29939..30049		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o3.tw	Method	TBLASTX:Wheat
Start	1322	End	29645
GI	none	Score	66
Exons	1322..1477, 28948..29166, 29250..29324, 29565..29645		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o1.tm	Method	TBLASTX:Maize
Start	7820	End	22579
GI	none	Score	197
Exons	7820..8071, 7821..8072, 8042..8446, 8069..8431, 8127..8447, 21953..22579, 21954..22178, 22034..22252, 22263..22577		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o1.ts	Method	TBLASTX:Soybean
Start	7934	End	22901
GI	none	Score	108
Exons	7934..8053, 8030..8236, 8249..8485, 8250..8483, 8252..8497, 8507..8665, 8534..8623, 8538..8753, 8708..8758, 8709..8765, 22067..22186, 22208..22372, 22280..22375, 22380..22427, 22385..22621, 22658..22801, 22674..22799, 22844..22894, 22845..22901		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o1.tc	Method	TBLASTX:Cress
Start	7937	End	24112
GI	none	Score	74
Exons	7937..8047, 7938..8048, 8165..8236, 8243..8485, 8250..8480, 8510..8689, 8526..8690, 8645..8791, 8709..8792, 9764..9862, 22070..22189, 22071..22181, 22292..22372, 22379..22621, 22386..22616, 22646..22825, 22662..22826, 22838..22927, 22845..22880, 23900..24004, 24032..24112		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o1.tw	Method	TBLASTX:Wheat
Start	8234	End	22775
GI	none	Score	144
Exons	8234..8284, 8300..8638, 8328..8639, 22370..22420, 22436..22774, 22653..22775		

Seq. No.	37555	Seq. ID	OJ991029_13.0120.C1
Gene No.	77096	Strand	-
Start	12493	End	30692
Name	OJ991029_13.0120.C1.o2.tm	Method	TBLASTX:Maize
Start	8489	End	22927
GI	none	Score	160

Exons 8489..8689, 8520..8690, 8681..8791, 8682..8747, 22625..22825, 22656..22826, 22817..22927, 22818..22883

Seq. No. 37555 Seq. ID OJ991029\_13.0120.C1  
Gene No. 77096 Strand -  
Start 12493 End 30692  
Name OJ991029\_13.0120.C1.o2.ts Method TBLASTX:Soybean  
Start 9326 End 24151  
GI none Score 250  
Exons 9326..9385, 9449..9493, 9764..9925, 9929..10027, 23243..23392, 23462..23518, 23585..23629, 23900..24151

Seq. No. 37555 Seq. ID OJ991029\_13.0120.C1  
Gene No. 77096 Strand -  
Start 12493 End 30692  
Name OJ991029\_13.0120.C1.o4.np Method AAT/NAP  
Start 12493 End 30692  
GI 4680204 Score 1196  
Exons 12493..12530, 15115..15308, 15663..15778, 15892..16065, 16140..16650, 16720..17028, 28717..29160, 29256..30692  
GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 37555 Seq. ID OJ991029\_13.0120.C1  
Gene No. 77096 Strand -  
Start 12493 End 30692  
Name OJ991029\_13.0120.C1.o2.gp Method AAT/GAP  
Start 22127 End 22502  
GI LIB3434-041-P1-K1-A12 Score 671  
Exons 22127..22502  
GI Descrip. '2864613/emb|CAA16960| 7.0e-26 (AL021811) S-receptor kinase-like protein [Arabidopsis thaliana] >gi\_4049333\_emb\_CAA22558.1 (AL034567) S-receptor kinase-like protein [Arabidopsis thaliana]'

Seq. No. 37556 Seq. ID OJ991029\_13.0120.C2  
Gene No. 77097 Strand -  
Start 307 End 5084  
Name OJ991029\_13.0120.C2.o2.gp Method AAT/GAP  
Start 307 End 4394  
GI 342\_1.R1084 Score 6326  
Exons 307..868, 951..973, 1005..4394  
GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37556 Seq. ID OJ991029\_13.0120.C2  
Gene No. 77097 Strand -  
Start 307 End 5084  
Name OJ991029\_13.0120.C2.o1.gp Method AAT/GAP  
Start 324 End 4394  
GI 342\_1.R1084 Score 6312  
Exons 324..868, 951..973, 1005..4394  
GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37556 Seq. ID OJ991029\_13.0120.C2  
Gene No. 77097 Strand -  
Start 307 End 5084

Name	OJ991029_13.0120.C2.o1.gs	Method	GENSCAN
Start	1030	End	5083
GI	none	Score	.47
Exons	1030..2321, 2513..2662, 2795..3065, 3162..3284, 3587..3759, 4002..4398, 4859..4953, 5020..5083		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o1.np	Method	AAT/NAP
Start	1099	End	5084
GI	4680203	Score	3182
Exons	1099..2076, 2343..2573, 2727..4398, 5056..5084		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o1.tw	Method	TBLASTX:Wheat
Start	1153	End	2460
GI	none	Score	52
Exons	1153..1245, 1154..1219, 1234..1314, 1250..1315, 1327..1467, 1328..1468, 1415..1510, 1447..1506, 1513..1557, 1513..1557, 1515..1559, 1552..2004, 1568..2299, 1583..2266, 2004..2300, 2050..2304, 2243..2422, 2280..2459, 2281..2460, 2281..2460		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o1.tc	Method	TBLASTX:Cress
Start	1734	End	2182
GI	none	Score	85
Exons	1734..1985, 1735..1884, 1735..2004, 1739..2182, 2025..2177, 2050..2178		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o2.tm	Method	TBLASTX:Maize
Start	2113	End	2417
GI	none	Score	77
Exons	2113..2304, 2144..2299, 2280..2417		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o3.tw	Method	TBLASTX:Wheat
Start	2461	End	2871
GI	none	Score	72
Exons	2461..2547, 2463..2546, 2472..2552, 2580..2783, 2580..2822, 2620..2802, 2808..2870, 2821..2871		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o2.ts	Method	TBLASTX:Soybean
Start	2904	End	3140

GI	none	Score	57
Exons	2904..3140, 2962..3060		
Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o1.tm	Method	TBLASTX:Maize
Start	2976	End	3433
GI	none	Score	46
Exons	2976..3170, 3180..3299, 3180..3305, 3299..3421, 3305..3433		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o2.tw	Method	TBLASTX:Wheat
Start	3010	End	3478
GI	none	Score	160
Exons	3010..3216, 3015..3239, 3219..3299, 3219..3305, 3220..3306, 3320..3424, 3324..3413, 3425..3478, 3426..3470		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o2.tc	Method	TBLASTX:Cress
Start	3299	End	3614
GI	none	Score	69
Exons	3299..3607, 3330..3422, 3462..3614		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o1.ts	Method	TBLASTX:Soybean
Start	3347	End	3776
GI	none	Score	123
Exons	3347..3643, 3365..3589, 3638..3700, 3693..3776, 3701..3775		

Seq. No.	37556	Seq. ID	OJ991029_13.0120.C2
Gene No.	77097	Strand	-
Start	307	End	5084
Name	OJ991029_13.0120.C2.o4.tw	Method	TBLASTX:Wheat
Start	3697	End	4092
GI	none	Score	180
Exons	3697..3939, 3705..3947, 3707..3958, 3708..3950, 3941..3973, 3994..4092		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77098	Strand	+
Start	13618	End	16475
Name	OJ991029_13.0120.C3.o3.np	Method	AAT/NAP
Start	13546	End	16463
GI	6691716	Score	2540
Exons	13546..14440, 14632..14806, 14889..14989, 15068..15247, 15325..15512, 15587..15689, 15837..15950, 16024..16463		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77098	Strand	+
Start	13618	End	16475
Name	OJ991029_13.0120.C3.o3.gs	Method	GENSCAN
Start	13618	End	16475
GI	none	Score	.87
Exons	13618..14430, 14517..14806, 14889..15247, 15325..15512, 15821..15950, 16024..16475		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77099	Strand	+
Start	23114	End	23205
Name	OJ991029_13.0120.C3.o2.gp	Method	AAT/GAP
Start	23114	End	23205
GI	LIB3477-003-P1-K1-E9	Score	131
Exons	23114..23205		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77100	Strand	+
Start	25781	End	27757
Name	OJ991029_13.0120.C3.o6.gs	Method	GENSCAN
Start	25781	End	27757
GI	none	Score	.47
Exons	25781..26188, 27172..27378, 27614..27757		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77100	Strand	+
Start	25781	End	27757
Name	OJ991029_13.0120.C3.o6.np	Method	AAT/NAP
Start	25964	End	27754
GI	4091008	Score	298
Exons	25964..26188, 27172..27366, 27620..27754		
GI Descrip.	(AF040700) methionyl-tRNA synthetase [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77100	Strand	+
Start	25781	End	27757
Name	OJ991029_13.0120.C3.o3.gp	Method	AAT/GAP
Start	26064	End	27390
GI	2312534	Score	577
Exons	26064..26188, 27172..27390		
GI Descrip.	2754814 4.0e-23 (AF021800) multisynthetase complex auxiliary component p43 [Cricetulus griseus]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77101	Strand	+
Start	37672	End	39402
Name	OJ991029_13.0120.C3.o8.gs	Method	GENSCAN
Start	37672	End	39402
GI	none	Score	.7
Exons	37672..37691, 38219..38520, 39359..39402		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77102	Strand	+



Start	45966	End	52795
Name	OJ991029_13.0120.C3.o11.gs	Method	GENSCAN
Start	45966	End	52795
GI	none	Score	.58
Exons	45966..46112, 46453..46563, 46619..49003, 49067..52795		

  

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77102	Strand	+
Start	45966	End	52795
Name	OJ991029_13.0120.C3.o8.np	Method	AAT/NAP
Start	47146	End	52792
GI	6498441	Score	6748
Exons	47146..48209, 48540..49003, 49067..49440, 49624..49758, 49933..50171, 50364..50848, 51020..52417, 52511..52792		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77103	Strand	+
Start	57778	End	63038
Name	OJ991029_13.0120.C3.o10.np	Method	AAT/NAP
Start	57778	End	63038
GI	5042454	Score	326
Exons	57778..57924, 58265..58362, 62963..63038		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77104	Strand	-
Start	3292	End	13991
Name	OJ991029_13.0120.C3.o1.np	Method	AAT/NAP
Start	3292	End	7429
GI	2864613	Score	895
Exons	3292..3403, 4220..5473, 5627..6356, 7402..7429		
GI Descrip.	(AL021811) S-receptor kinase -like protein [Arabidopsis thaliana] gi 4049333 emb CAA22558.1  (AL034567) S-receptor kinase-like protein [Arabidopsis thaliana]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77104	Strand	-
Start	3292	End	13991
Name	OJ991029_13.0120.C3.o2.gs	Method	GENSCAN
Start	3626	End	11400
GI	none	Score	.51
Exons	3626..3877, 4270..6679, 6763..6965, 8488..8706, 8751..8948, 9156..9363, 9438..9692, 11399..11400		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77104	Strand	-
Start	3292	End	13991
Name	OJ991029_13.0120.C3.o1.gp	Method	AAT/GAP
Start	4318	End	4693
GI	LIB3434-041-P1-K1-A12	Score	715
Exons	4318..4693		
GI Descrip.	'2864613/emb CAA16960  7.0e-26 (AL021811) S-receptor kinase -like protein [Arabidopsis thaliana] >gi_4049333_emb_CAA22558.1_ (AL034567) S-receptor kinase-like protein [Arabidopsis		

thaliana]'

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77104	Strand	-
Start	3292	End	13991
Name	OJ991029_13.0120.C3.o2.np	Method	AAT/NAP
Start	8454	End	13991
GI	6069646	Score	580
Exons	8454..9422, 9704..9874, 13960..13991		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77105	Strand	-
Start	16817	End	25367
Name	OJ991029_13.0120.C3.o4.gs	Method	GENSCAN
Start	16817	End	18881
GI	none	Score	.54
Exons	16817..17629, 18256..18822, 18846..18881		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77105	Strand	-
Start	16817	End	25367
Name	OJ991029_13.0120.C3.o4.np	Method	AAT/NAP
Start	16853	End	22428
GI	5922631	Score	6356
Exons	16853..19370, 19491..20402, 20529..20679, 20722..21297, 21343..21542, 21801..22045, 22304..22428		
GI Descrip.	(AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativ		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77105	Strand	-
Start	16817	End	25367
Name	OJ991029_13.0120.C3.o5.gs	Method	GENSCAN
Start	19408	End	25367
GI	none	Score	.86
Exons	19408..19925, 20031..22084, 22304..22476, 22596..22645, 24468..24867, 25281..25367		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77105	Strand	-
Start	16817	End	25367
Name	OJ991029_13.0120.C3.o5.np	Method	AAT/NAP
Start	22047	End	23524
GI	128857	Score	476
Exons	22047..22076, 23206..23524		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE SUBUNIT J (ORF 159) gi 82539 pir  S05106 hypothetical protein 159 - rice chloroplast		

gi|11987|emb|CAA33999| (X15901) ORF159 [Oryza sativa]  
gi|226608|prf||1603356AE ORF 159 [Oryza sativa]

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77106	Strand	-
Start	28622	End	36860
Name	OJ991029_13.0120.C3.o7.np	Method	AAT/NAP
Start	28566	End	32753
GI	3885327	Score	495
Exons	28566..28740, 29170..29260, 30023..30109, 31084..31139, 31210..31291, 32000..32076, 32648..32753		
GI Descrip.	(AC005623) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77106	Strand	-
Start	28622	End	36860
Name	OJ991029_13.0120.C3.o7.gs	Method	GENSCAN
Start	28622	End	36860
GI	none	Score	.77
Exons	28622..28740, 29170..29260, 31084..31139, 32648..32758, 33528..33689, 33860..34072, 36827..36860		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77107	Strand	-
Start	39960	End	42537
Name	OJ991029_13.0120.C3.o9.gs	Method	GENSCAN
Start	39960	End	42537
GI	none	Score	.55
Exons	39960..39963, 40408..40569, 42137..42219, 42292..42537		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77108	Strand	-
Start	43094	End	43777
Name	OJ991029_13.0120.C3.o10.gs	Method	GENSCAN
Start	43094	End	43777
GI	none	Score	.92
Exons	43094..43236, 43609..43777		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77109	Strand	-
Start	53432	End	56667
Name	OJ991029_13.0120.C3.o12.gs	Method	GENSCAN
Start	53432	End	56667
GI	none	Score	.91
Exons	53432..55313, 55406..56667		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77109	Strand	-
Start	53432	End	56667
Name	OJ991029_13.0120.C3.o9.np	Method	AAT/NAP
Start	53435	End	56667
GI	6907089	Score	4114
Exons	53435..55313, 55406..56667		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-

Start 59904  
 Name OJ991029\_13.0120.C3.o1.tm  
 Start 4144  
 GI none  
 Exons 4144..4773, 4145..4774

End 63038  
 Method TBLASTX:Maize  
 End 4774  
 Score 436

Seq. No. 37557  
 Gene No. 77110  
 Start 59904  
 Name OJ991029\_13.0120.C3.o1.ts  
 Start 4258  
 GI none  
 Exons 4258..4377, 4399..4563, 4471..4566, 4571..4618, 4576..4812, 4834..4992, 4865..5080, 5074..5130

Seq. ID OJ991029\_13.0120.C3  
 Strand -  
 End 63038  
 Method TBLASTX:Soybean  
 End 5130  
 Score 79

Seq. No. 37557  
 Gene No. 77110  
 Start 59904  
 Name OJ991029\_13.0120.C3.o1.tc  
 Start 4261  
 GI none  
 Exons 4261..4380, 4262..4372, 4483..4563, 4570..4812, 4577..4807, 4837..5016, 4853..4984, 5036..5092, 6076..6174, 6085..6168, 6286..6357, 6287..6331, 62238..62324

Seq. ID OJ991029\_13.0120.C3  
 Strand -  
 End 63038  
 Method TBLASTX:Cress  
 End 62324  
 Score 92

Seq. No. 37557  
 Gene No. 77110  
 Start 59904  
 Name OJ991029\_13.0120.C3.o9.tw  
 Start 4561  
 GI none  
 Exons 4561..4611, 4627..4812, 4844..4966, 4849..4965, 62238..62324

Seq. ID OJ991029\_13.0120.C3  
 Strand -  
 End 63038  
 Method TBLASTX:Wheat  
 End 62324  
 Score 76

Seq. No. 37557  
 Gene No. 77110  
 Start 59904  
 Name OJ991029\_13.0120.C3.o11.tm  
 Start 4834  
 GI none  
 Exons 4834..5016, 4847..5068, 5027..5125

Seq. ID OJ991029\_13.0120.C3  
 Strand -  
 End 63038  
 Method TBLASTX:Maize  
 End 5125  
 Score 127

Seq. No. 37557  
 Gene No. 77110  
 Start 59904  
 Name OJ991029\_13.0120.C3.o6.ts  
 Start 5434  
 GI none  
 Exons 5434..5520, 5623..5715, 5773..5829, 6076..6321, 6086..6322

Seq. ID OJ991029\_13.0120.C3  
 Strand -  
 End 63038  
 Method TBLASTX:Soybean  
 End 6322  
 Score 119

Seq. No. 37557  
 Gene No. 77110  
 Start 59904  
 Name OJ991029\_13.0120.C3.o8.tm  
 Start 7525  
 GI none  
 Exons 7525..7608, 7624..7857, 7630..7824, 7951..8109, 8491..8673, 8655..8909, 8656..8910

Seq. ID OJ991029\_13.0120.C3  
 Strand -  
 End 63038  
 Method TBLASTX:Maize  
 End 8910  
 Score 63

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o11.tw	Method	TBLASTX:Wheat
Start	7624	End	8906
GI	none	Score	105
Exons	7624..7719, 7774..7824, 7921..7983, 8584..8631, 8676..8726, 8721..8906		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o12.tm	Method	TBLASTX:Maize
Start	9180	End	9471
GI	none	Score	54
Exons	9180..9467, 9210..9290, 9409..9471		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o12.tw	Method	TBLASTX:Wheat
Start	9402	End	9841
GI	none	Score	81
Exons	9402..9458, 9542..9841, 9543..9836		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o6.tm	Method	TBLASTX:Maize
Start	9476	End	9859
GI	none	Score	74
Exons	9476..9859, 9479..9691, 9630..9851		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o10.tw	Method	TBLASTX:Wheat
Start	13666	End	13956
GI	none	Score	213
Exons	13666..13956		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o3.tw	Method	TBLASTX:Wheat
Start	16829	End	52783
GI	none	Score	90
Exons	16829..16966, 16952..17443, 17181..17288, 17337..17423, 52175..52465, 52207..52464, 52657..52779, 52658..52783		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o10.tm	Method	TBLASTX:Maize
Start	16868	End	52747
GI	none	Score	98

Exons 16868..16969, 16869..16970, 16949..17122, 16950..17075,  
52577..52663, 52651..52746, 52664..52747

Seq. No. 37557 Seq. ID OJ991029\_13.0120.C3  
Gene No. 77110 Strand -  
Start 59904 End 63038  
Name OJ991029\_13.0120.C3.o14.tm Method TBLASTX:Maize  
Start 17213 End 52399  
GI none Score 53  
Exons 17213..17311, 17312..17392, 17323..17397, 17387..17485,  
17388..17486, 52127..52225, 52220..52303, 52319..52399

Seq. No. 37557 Seq. ID OJ991029\_13.0120.C3  
Gene No. 77110 Strand -  
Start 59904 End 63038  
Name OJ991029\_13.0120.C3.o4.tw Method TBLASTX:Wheat  
Start 17556 End 52054  
GI none Score 54  
Exons 17556..17603, 17558..17743, 17558..17944, 17634..17921,  
51665..52054, 51688..51978, 51692..52054

Seq. No. 37557 Seq. ID OJ991029\_13.0120.C3  
Gene No. 77110 Strand -  
Start 59904 End 63038  
Name OJ991029\_13.0120.C3.o3.tm Method TBLASTX:Maize  
Start 17588 End 51985  
GI none Score 218  
Exons 17588..17635, 17627..17950, 17640..17927, 51662..51985,  
51691..51972

Seq. No. 37557 Seq. ID OJ991029\_13.0120.C3  
Gene No. 77110 Strand -  
Start 59904 End 63038  
Name OJ991029\_13.0120.C3.o6.tw Method TBLASTX:Wheat  
Start 18248 End 51307  
GI none Score 264  
Exons 18248..18670, 18253..18675, 18574..18678, 50846..50953,  
50851..50958, 50990..51307, 51016..51240

Seq. No. 37557 Seq. ID OJ991029\_13.0120.C3  
Gene No. 77110 Strand -  
Start 59904 End 63038  
Name OJ991029\_13.0120.C3.o5.ts Method TBLASTX:Soybean  
Start 18296 End 51253  
GI none Score 148  
Exons 18296..18676, 18298..18540, 18580..18684, 50843..50941,  
51008..51253

Seq. No. 37557 Seq. ID OJ991029\_13.0120.C3  
Gene No. 77110 Strand -  
Start 59904 End 63038  
Name OJ991029\_13.0120.C3.o8.tw Method TBLASTX:Wheat  
Start 18679 End 50842  
GI none Score 74  
Exons 18679..18960, 18680..18841, 18880..18948, 50075..50149,  
50095..50148, 50627..50842

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o3.ts	Method	TBLASTX:Soybean
Start	18910	End	50095
GI	none	Score	47
Exons	18910..19341, 18944..19114, 18997..19290, 19151..19294, 49724..50095, 49741..49884		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o2.tw	Method	TBLASTX:Wheat
Start	18965	End	50070
GI	none	Score	261
Exons	18965..19345, 18970..19389, 49646..50065, 49651..50070		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o5.tm	Method	TBLASTX:Maize
Start	19063	End	49972
GI	none	Score	132
Exons	19063..19446, 19064..19342, 49588..49953, 49589..49972		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o4.tm	Method	TBLASTX:Maize
Start	19474	End	49561
GI	none	Score	81
Exons	19474..19626, 19484..19624, 49205..49561, 49240..49551, 49292..49561		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o1.tw	Method	TBLASTX:Wheat
Start	19504	End	49537
GI	none	Score	91
Exons	19504..19626, 19505..19624, 49074..49250, 49075..49536, 49076..49537		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o5.tw	Method	TBLASTX:Wheat
Start	19679	End	48910
GI	none	Score	77
Exons	19679..19801, 19681..19905, 19681..19911, 19826..19915, 19963..20136, 48424..48597, 48425..48910, 48619..48906		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o7.tw	Method	TBLASTX:Wheat
Start	20767	End	47686

GI	none	Score	45
Exons	20767..21027, 20915..21028, 21016..21108, 21017..21109, 47294..47341, 47348..47446, 47365..47445, 47413..47652, 47429..47686		
Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o13.tm	Method	TBLASTX:Maize
Start	20881	End	47584
GI	none	Score	193
Exons	20881..21135, 47299..47583, 47336..47584		
Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o2.tm	Method	TBLASTX:Maize
Start	23205	End	23550
GI	none	Score	92
Exons	23205..23309, 23206..23310, 23206..23301, 23309..23536, 23310..23537, 23311..23550, 23311..23550		
Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o2.tc	Method	TBLASTX:Cress
Start	23212	End	23509
GI	none	Score	77
Exons	23212..23310, 23212..23301, 23216..23311, 23309..23509, 23310..23507		
Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o2.ts	Method	TBLASTX:Soybean
Start	23212	End	23534
GI	none	Score	66
Exons	23212..23310, 23212..23301, 23309..23518, 23310..23534		
Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o4.ts	Method	TBLASTX:Soybean
Start	26039	End	27381
GI	none	Score	194
Exons	26039..26188, 27128..27364, 27156..27380, 27162..27377, 27163..27381		
Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o7.tm	Method	TBLASTX:Maize
Start	26039	End	27780
GI	none	Score	241
Exons	26039..26188, 26050..26190, 27143..27379, 27163..27330, 27166..27381, 27171..27380, 27597..27761, 27614..27748, 27628..27780		



Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o3.tc	Method	TBLASTX:Cress
Start	27166	End	27745
GI	none	Score	270
Exons	27166..27381, 27180..27380, 27614..27745		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o7.ts	Method	TBLASTX:Soybean
Start	49115	End	49480
GI	none	Score	117
Exons	49115..49339, 49346..49480		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o4.gp	Method	AAT/GAP
Start	59255	End	62566
GI	77_1.R1084	Score	1642
Exons	59255..59489, 59903..60005, 60094..60234, 60493..60605, 61488..61539, 61773..61895, 62220..62326, 62515..62566		
GI Descrip.	'6006310/dbj BAA84779.1  0.0e+00 (AB018443) nonphototrophic hypocotyl 1b [Oryza sativa]'		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o14.gs	Method	GENSCAN
Start	59904	End	62326
GI	none	Score	.94
Exons	59904..60005, 60493..60605, 60956..60992, 61773..61895, 62220..62326		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o11.np	Method	AAT/NAP
Start	59907	End	63038
GI	6006310	Score	1000
Exons	59907..60005, 60094..60234, 60493..60605, 61488..61539, 61773..61895, 62220..62326, 62515..62570, 62911..63038		
GI Descrip.	(AB018443) nonphototrophic hypocotyl 1b [Oryza sativa]		

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o9.tm	Method	TBLASTX:Maize
Start	59928	End	62579
GI	none	Score	55
Exons	59928..60002, 59931..59990, 59932..60003, 60092..60235, 60092..60235, 60093..60236, 60094..60240, 60488..60586, 60490..60585, 60584..60637, 61430..61540, 61486..61539, 61756..61875, 61773..61871, 62215..62328, 62217..62330,		

62510..62566, 62510..62566, 62511..62579

Seq. No.	37557	Seq. ID	OJ991029_13.0120.C3
Gene No.	77110	Strand	-
Start	59904	End	63038
Name	OJ991029_13.0120.C3.o4.tc	Method	TBLASTX:Cress
Start	59931	End	62579
GI	none	Score	125
Exons	59931..60005, 60094..60240, 60095..60235, 60488..60613, 60490..60636, 61484..61540, 61486..61539, 61762..61869, 61773..61898, 62508..62579, 62510..62566		

Seq. No.	37558	Seq. ID	OJ991029_13.0120.C4
Gene No.	77111	Strand	+
Start	84	End	293
Name	OJ991029_13.0120.C4.o1.gs	Method	GENSCAN
Start	84	End	293
GI	none	Score	.64
Exons	84..293		

Seq. No.	37559	Seq. ID	OJ991029_13.0120.C5
Gene No.	77112	Strand	-
Start	228	End	691
Name	OJ991029_13.0120.C5.o1.gs	Method	GENSCAN
Start	228	End	686
GI	none	Score	.92
Exons	228..686		

Seq. No.	37559	Seq. ID	OJ991029_13.0120.C5
Gene No.	77112	Strand	-
Start	228	End	691
Name	OJ991029_13.0120.C5.o1.np	Method	AAT/NAP
Start	240	End	691
GI	5803259	Score	528
Exons	240..691		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	37560	Seq. ID	OJ991029_13.0120.C6
Gene No.	77113	Strand	+
Start	1	End	500
Name	OJ991029_13.0120.C6.o1.gp	Method	AAT/GAP
Start	1	End	290
GI	LIB3434-041-P1-K1-A12	Score	531
Exons	1..290		
GI Descrip.	'2864613/emb CAA16960  7.0e-26 (AL021811) S-receptor kinase -like protein [Arabidopsis thaliana] >gi_4049333.emb_CAA22558.1_ (AL034567) S-receptor kinase-like protein [Arabidopsis thaliana]'		

Seq. No.	37560	Seq. ID	OJ991029_13.0120.C6
Gene No.	77113	Strand	+
Start	1	End	500
Name	OJ991029_13.0120.C6.o1.np	Method	AAT/NAP
Start	1	End	500
GI	2864613	Score	189
Exons	1..500		
GI Descrip.	(AL021811) S-receptor kinase -like protein [Arabidopsis		

thaliana] gi|4049333|emb|CAA22558.1| (AL034567) S-receptor  
kinase-like protein [Arabidopsis thaliana]

Seq. No.	37560	Seq. ID	OJ991029_13.0120.C6
Gene No.	77113	Strand	+
Start	1	End	500
Name	OJ991029_13.0120.C6.ol.tm	Method	TBLASTX:Maize
Start	1	End	464
GI	none	Score	87
Exons	1..54, 2..58, 51..464, 53..154, 165..383, 239..463		

Seq. No.	37560	Seq. ID	OJ991029_13.0120.C6
Gene No.	77113	Strand	+
Start	1	End	500
Name	OJ991029_13.0120.C6.ol.ts	Method	TBLASTX:Soybean
Start	2	End	449
GI	none	Score	50
Exons	2..40, 54..209, 237..350, 324..449		

Seq. No.	37560	Seq. ID	OJ991029_13.0120.C6
Gene No.	77113	Strand	+
Start	1	End	500
Name	OJ991029_13.0120.C6.ol.gs	Method	GENSCAN
Start	44	End	461
GI	none	Score	.4
Exons	44..461		

Seq. No.	37561	Seq. ID	OJ991029_13.0120.C7
Gene No.	77114	Strand	+
Start	1	End	606
Name	OJ991029_13.0120.C7.ol.np	Method	AAT/NAP
Start	1	End	606
GI	5042454	Score	300
Exons	1..115, 456..606		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	37561	Seq. ID	OJ991029_13.0120.C7
Gene No.	77115	Strand	-
Start	99	End	178
Name	OJ991029_13.0120.C7.ol.gs	Method	GENSCAN
Start	99	End	178
GI	none	Score	.51
Exons	99..178		

Seq. No.	37562	Seq. ID	OJ991109_13.0131.C1
Gene No.	77116	Strand	-
Start	400	End	958
Name	OJ991109_13.0131.C1.ol.gp	Method	AAT/GAP
Start	400	End	958
GI	31070_1.R1084	Score	643
Exons	400..503, 701..958		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	37562	Seq. ID	OJ991109_13.0131.C1
Gene No.	77116	Strand	-
Start	400	End	958

Name OJ991109\_13.0131.C1.o1.gs  
Start 409  
GI none  
Exons 409..503, 701..779

Method GENSCAN  
End 779  
Score .54

Seq. No. 37563  
Gene No. 77117  
Start 140  
Name OJ991109\_13.0131.C2.o1.gs  
Start 140  
GI none  
Exons 140..493

Seq. ID OJ991109\_13.0131.C2  
Strand +  
End 493  
Method GENSCAN  
End 493  
Score .95

Seq. No. 37563  
Gene No. 77118  
Start 1  
Name OJ991109\_13.0131.C2.o1.np  
Start 1  
GI 5777617  
Exons 1..104, 1276..1305

Seq. ID OJ991109\_13.0131.C2  
Strand -  
End 1305  
Method AAT/NAP  
End 1305  
Score 69

GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No. 37563  
Gene No. 77119  
Start 3533  
Name OJ991109\_13.0131.C2.o2.gs  
Start 3533  
GI none  
Exons 3533..3706

Seq. ID OJ991109\_13.0131.C2  
Strand -  
End 3798  
Method GENSCAN  
End 3706  
Score .53

Seq. No. 37563  
Gene No. 77119  
Start 3533  
Name OJ991109\_13.0131.C2.o2.np  
Start 3536  
GI 6522916  
Exons 3536..3798

Seq. ID OJ991109\_13.0131.C2  
Strand -  
End 3798  
Method AAT/NAP  
End 3798  
Score 269

GI Descrip. (AL132978) putative protein [Arabidopsis thaliana]

Seq. No. 37564  
Gene No. 77120  
Start 37  
Name OJ991109\_13.0131.C3.o1.gs  
Start 37  
GI none  
Exons 37..504

Seq. ID OJ991109\_13.0131.C3  
Strand +  
End 504  
Method GENSCAN  
End 504  
Score .96

Seq. No. 37564  
Gene No. 77121  
Start 1  
Name OJ991109\_13.0131.C3.o1.np  
Start 1  
GI 6522916  
Exons 1..518

Seq. ID OJ991109\_13.0131.C3  
Strand -  
End 518  
Method AAT/NAP  
End 518  
Score 433

GI Descrip. (AL132978) putative protein [Arabidopsis thaliana]

Seq. No. 37564

Seq. ID OJ991109\_13.0131.C3

Gene No.	77121	Strand	-
Start	1	End	518
Name	OJ991109_13.0131.C3.o1.ts	Method	TBLASTX:Soybean
Start	3	End	192
GI	4292932	Score	143
Exons	3..191, 10..192		
GI Descrip.	4468990/emb_CAB38304_5.0e-15 (AL035605) putative protein [Arabidopsis thaliana]		

Seq. No.	37565	Seq. ID	OJ991109_13.0131.C4
Gene No.	77122	Strand	-
Start	112	End	384
Name	OJ991109_13.0131.C4.o1.gs	Method	GENSCAN
Start	112	End	384
GI	none	Score	.46
Exons	112..238, 244..384		

Seq. No.	37566	Seq. ID	OJ991109_13.0131.C5
Gene No.	77123	Strand	+
Start	577	End	1079
Name	OJ991109_13.0131.C5.o1.gs	Method	GENSCAN
Start	577	End	1079
GI	none	Score	.6
Exons	577..647, 807..904, 952..1079		

Seq. No.	37567	Seq. ID	OJ991109_13.0131.C6
Gene No.	77124	Strand	+
Start	608	End	1090
Name	OJ991109_13.0131.C6.o1.gs	Method	GENSCAN
Start	608	End	1090
GI	none	Score	.41
Exons	608..1090		

Seq. No.	37568	Seq. ID	OJ991109_13.0131.C7
Gene No.	77125	Strand	+
Start	1127	End	2041
Name	OJ991109_13.0131.C7.o1.gs	Method	GENSCAN
Start	1127	End	2041
GI	none	Score	.43
Exons	1127..1287, 1942..2041		

Seq. No.	37568	Seq. ID	OJ991109_13.0131.C7
Gene No.	77126	Strand	-
Start	3358	End	4923
Name	OJ991109_13.0131.C7.o1.gp	Method	AAT/GAP
Start	3168	End	3596
GI	3762652	Score	614
Exons	3168..3474, 3574..3596		

Seq. No.	37568	Seq. ID	OJ991109_13.0131.C7
Gene No.	77126	Strand	-
Start	3358	End	4923
Name	OJ991109_13.0131.C7.o2.gs	Method	GENSCAN
Start	3358	End	4923
GI	none	Score	.7
Exons	3358..3438, 3574..3981, 4525..4568, 4669..4804, 4903..4923		

Seq. No.	37568	Seq. ID	OJ991109_13.0131.C7
Gene No.	77126	Strand	-
Start	3358	End	4923
Name	OJ991109_13.0131.C7.o2.gp	Method	AAT/GAP
Start	3643	End	4009
GI	none	Score	707
Exons	3643..4009		

Seq. No.	37569	Seq. ID	OJ991109_13.0131.C8
Gene No.	77127	Strand	+
Start	77	End	724
Name	OJ991109_13.0131.C8.o1.gs	Method	GENSCAN
Start	77	End	724
GI	none	Score	.57
Exons	77..220, 358..724		

Seq. No.	37570	Seq. ID	OJ991109_13.0131.C9
Gene No.	77128	Strand	+
Start	113	End	209
Name	OJ991109_13.0131.C9.o1.gs	Method	GENSCAN
Start	113	End	209
GI	none	Score	.86
Exons	113..209		

Seq. No.	37571	Seq. ID	OJ991109_13.0131.C10
Gene No.	77129	Strand	+
Start	275	End	1119
Name	OJ991109_13.0131.C10.o1.gs	Method	GENSCAN
Start	275	End	1119
GI	none	Score	.41
Exons	275..348, 984..1119		

Seq. No.	37572	Seq. ID	OJ991109_13.0131.C11
Gene No.	77130	Strand	-
Start	934	End	2499
Name	OJ991109_13.0131.C11.o1.gs	Method	GENSCAN
Start	934	End	2484
GI	none	Score	.98
Exons	934..2484		

Seq. No.	37572	Seq. ID	OJ991109_13.0131.C11
Gene No.	77130	Strand	-
Start	934	End	2499
Name	OJ991109_13.0131.C11.o1.np	Method	AAT/NAP
Start	937	End	2499
GI	3004555	Score	1033
Exons	937..2499		
GI Descrip.	(AC003673) putative salt-inducible protein [Arabidopsis thaliana]		

Seq. No.	37572	Seq. ID	OJ991109_13.0131.C11
Gene No.	77130	Strand	-
Start	934	End	2499
Name	OJ991109_13.0131.C11.o1.tc	Method	TBLASTX:Cress
Start	1012	End	2499
GI	none	Score	60
Exons	1012..1248, 1033..1353, 1129..1458, 1143..1289, 1190..1372,		

1234..1500, 1378..1434, 1621..1854, 1666..1986, 1768..2076,  
1864..2175, 2074..2391, 2185..2496, 2290..2499, 2389..2499

Seq. No.	37572	Seq. ID	OJ991109_13.0131.C11
Gene No.	77130	Strand	-
Start	934	End	2499
Name	OJ991109_13.0131.C11.o1.tm	Method	TBLASTX:Maize
Start	1033	End	2499
GI	none	Score	375
Exons	1033..1371, 1138..1458, 1239..1583, 1240..1581, 1392..1589, 1690..1983, 1768..2091, 1975..2169, 2188..2499		

Seq. No.	37572	Seq. ID	OJ991109_13.0131.C11
Gene No.	77130	Strand	-
Start	934	End	2499
Name	OJ991109_13.0131.C11.o1.ts	Method	TBLASTX:Soybean
Start	1033	End	2499
GI	none	Score	358
Exons	1033..1434, 1036..1254, 1048..1356, 1075..1401, 1183..1560, 1288..1626, 1390..1887, 1621..2052, 1808..2305, 1808..2155, 1810..2307, 1921..2406, 2023..2487, 2039..2419, 2125..2499		

Seq. No.	37573	Seq. ID	OJ991109_13.0131.C12
Gene No.	77131	Strand	+
Start	471	End	2267
Name	OJ991109_13.0131.C12.o1.gs	Method	GENSCAN
Start	471	End	2267
GI	none	Score	.53
Exons	471..764, 791..937, 1918..1999, 2095..2267		

Seq. No.	37573	Seq. ID	OJ991109_13.0131.C12
Gene No.	77132	Strand	+
Start	3556	End	5447
Name	OJ991109_13.0131.C12.o1.np	Method	AAT/NAP
Start	3529	End	5005
GI	416731	Score	272
Exons	3529..4001, 4945..5005		
GI Descrip.	POLLEN SPECIFIC PROTEIN C13 PRECURSOR gi 82655 pir  JQ1107 18.3K protein precursor, pollen - maize gi 255569 bbs 113677 (S44171) pollen specific protein [Zea mays=corn, Peptide, 170 aa] [Zea mays] gi 1588669 prf  2209273A Zm13 [Zea mays]		

Seq. No.	37573	Seq. ID	OJ991109_13.0131.C12
Gene No.	77132	Strand	+
Start	3556	End	5447
Name	OJ991109_13.0131.C12.o2.gs	Method	GENSCAN
Start	3556	End	4062
GI	none	Score	.6
Exons	3556..4062		

Seq. No.	37573	Seq. ID	OJ991109_13.0131.C12
Gene No.	77132	Strand	+
Start	3556	End	5447
Name	OJ991109_13.0131.C12.o1.tm	Method	TBLASTX:Maize
Start	3627	End	3951
GI	none	Score	267
Exons	3627..3827, 3628..3828, 3822..3950, 3829..3951		

Seq. No.	37573	Seq. ID	OJ991109_13.0131.C12
Gene No.	77132	Strand	+
Start	3556	End	5447
Name	OJ991109_13.0131.C12.o3.gs	Method	GENSCAN
Start	4530	End	5447
GI	none	Score	.92
Exons	4530..4923, 5428..5447		
Seq. No.	37573	Seq. ID	OJ991109_13.0131.C12
Gene No.	77132	Strand	+
Start	3556	End	5447
Name	OJ991109_13.0131.C12.o1.gp	Method	AAT/GAP
Start	4933	End	5150
GI	uC-osroM202025g03a1	Score	323
Exons	4933..5150		
GI Descrip.	'4835767/gb AAD30234.1 AC007202_16 7.0e-17 (AC007202) T8K14.16 [Arabidopsis thaliana]'		
Seq. No.	37574	Seq. ID	OJ991109_13.0131.C13
Gene No.	77133	Strand	+
Start	92	End	231
Name	OJ991109_13.0131.C13.o1.gs	Method	GENSCAN
Start	92	End	231
GI	none	Score	.85
Exons	92..231		
Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77134	Strand	+
Start	2995	End	3111
Name	OJ991109_13.0131.C14.o1.gs	Method	GENSCAN
Start	2995	End	3111
GI	none	Score	.49
Exons	2995..3111		
Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77135	Strand	+
Start	8444	End	11656
Name	OJ991109_13.0131.C14.o4.gs	Method	GENSCAN
Start	8444	End	11656
GI	none	Score	.77
Exons	8444..8546, 8658..9285, 9488..9602, 9670..9861, 9932..9990, 10270..10771, 10914..11028, 11139..11656		
Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77135	Strand	+
Start	8444	End	11656
Name	OJ991109_13.0131.C14.o2.np	Method	AAT/NAP
Start	9606	End	10813
GI	6721561	Score	1199
Exons	9606..9861, 9932..9990, 10048..10813		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		



Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77136	Strand	+
Start	17003	End	20325
Name	OJ991109_13.0131.C14.o6.np	Method	AAT/NAP
Start	17003	End	20325
GI	6721512	Score	94
Exons	17003..17024, 18604..18709, 18737..18903, 20291..20325		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77137	Strand	+
Start	21386	End	22396
Name	OJ991109_13.0131.C14.o6.gs	Method	GENSCAN
Start	21386	End	22396
GI	none	Score	.48
Exons	21386..21398, 21501..21532, 22253..22396		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77138	Strand	+
Start	23799	End	24680
Name	OJ991109_13.0131.C14.o1.gp	Method	AAT/GAP
Start	23738	End	24109
GI	none	Score	705
Exons	23738..24109		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77138	Strand	+
Start	23799	End	24680
Name	OJ991109_13.0131.C14.o7.gs	Method	GENSCAN
Start	23799	End	24680
GI	none	Score	.73
Exons	23799..24680		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77139	Strand	-
Start	3901	End	5618
Name	OJ991109_13.0131.C14.o1.np	Method	AAT/NAP
Start	3895	End	5618
GI	2511546	Score	180
Exons	3895..4485, 5574..5618		
GI Descrip.	(AF022658) putative c2h2 zinc finger transcription factor [Arabidopsis thaliana]		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77139	Strand	-
Start	3901	End	5618
Name	OJ991109_13.0131.C14.o2.gs	Method	GENSCAN
Start	3901	End	4446
GI	none	Score	1
Exons	3901..4446		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77140	Strand	-
Start	5568	End	6563
Name	OJ991109_13.0131.C14.o3.gs	Method	GENSCAN
Start	5568	End	6563
GI	none	Score	.61

Exons 5568..5663, 6330..6448, 6488..6563

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o3.np	Method	AAT/NAP
Start	12272	End	15393
GI	5902445	Score	3018
Exons	12272..13561, 13601..15393		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o3.tw	Method	TBLASTX:Wheat
Start	12294	End	12887
GI	none	Score	66
Exons	12294..12407, 12299..12412, 12516..12887, 12634..12741		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o5.gs	Method	GENSCAN
Start	12294	End	18662
GI	none	Score	.45
Exons	12294..13065, 13181..14710, 14810..15402, 15571..16137, 16167..16661, 16686..18662		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o6.tw	Method	TBLASTX:Wheat
Start	13014	End	13398
GI	none	Score	98
Exons	13014..13166, 13015..13164, 13189..13398, 13193..13390		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o3.tm	Method	TBLASTX:Maize
Start	13093	End	13398
GI	none	Score	62
Exons	13093..13176, 13101..13172, 13183..13398, 13211..13360		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o5.tw	Method	TBLASTX:Wheat
Start	13900	End	14308
GI	none	Score	101
Exons	13900..14067, 14081..14308, 14083..14307		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o1.ts	Method	TBLASTX:Soybean
Start	14398	End	14823

GI	none	Score	85
Exons	14398..14823, 14639..14791		
Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o2.tw	Method	TBLASTX:Wheat
Start	14453	End	14877
GI	none	Score	287
Exons	14453..14830, 14455..14877, 14596..14874		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o2.tm	Method	TBLASTX:Maize
Start	14551	End	14934
GI	none	Score	129
Exons	14551..14934, 14552..14830		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o1.tm	Method	TBLASTX:Maize
Start	14962	End	15318
GI	none	Score	211
Exons	14962..15318, 14990..15256, 15013..15264		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o1.tw	Method	TBLASTX:Wheat
Start	14993	End	15448
GI	none	Score	391
Exons	14993..15448, 14994..15233, 15004..15447		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o2.ts	Method	TBLASTX:Soybean
Start	15043	End	15408
GI	none	Score	110
Exons	15043..15177, 15184..15408		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o4.np	Method	AAT/NAP
Start	15460	End	19384
GI	5902444	Score	1015
Exons	15460..17109, 17296..17570, 19340..19384		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o4.tw	Method	TBLASTX:Wheat
Start	15640	End	16095

GI	none	Score	126
Exons	15640..15876, 15650..15874, 15913..16095, 15914..16087		
Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o7.tw	Method	TBLASTX:Wheat
Start	16725	End	17123
GI	none	Score	71
Exons	16725..17000, 16764..16916, 16774..16953, 16959..17072, 17011..17061, 17073..17123		

Seq. No.	37575	Seq. ID	OJ991109_13.0131.C14
Gene No.	77141	Strand	-
Start	12294	End	19384
Name	OJ991109_13.0131.C14.o4.tm	Method	TBLASTX:Maize
Start	16839	End	17078
GI	none	Score	189
Exons	16839..17078		

Seq. No.	37576	Seq. ID	OJ991109_13.0131.C15
Gene No.	77142	Strand	+
Start	208	End	682
Name	OJ991109_13.0131.C15.o1.gs	Method	GENSCAN
Start	208	End	682
GI	none	Score	.83
Exons	208..350, 515..682		

Seq. No.	37577	Seq. ID	OJ991109_13.0131.C16
Gene No.	77143	Strand	+
Start	1	End	3824
Name	OJ991109_13.0131.C16.o3.np	Method	AAT/NAP
Start	1	End	3824
GI	5777623	Score	981
Exons	1..321, 570..730, 911..1417, 2776..3025, 3803..3824		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	37577	Seq. ID	OJ991109_13.0131.C16
Gene No.	77144	Strand	-
Start	1	End	3824
Name	OJ991109_13.0131.C16.o1.np	Method	AAT/NAP
Start	1	End	1671
GI	6907086	Score	1411
Exons	1..201, 316..436, 687..856, 917..1671		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37577	Seq. ID	OJ991109_13.0131.C16
Gene No.	77144	Strand	-
Start	1	End	3824
Name	OJ991109_13.0131.C16.o1.gs	Method	GENSCAN
Start	321	End	588
GI	none	Score	.95
Exons	321..588		

Seq. No.	37577	Seq. ID	OJ991109_13.0131.C16
Gene No.	77144	Strand	-
Start	1	End	3824

Name	OJ991109_13.0131.C16.o2.np	Method	AAT/NAP
Start	325	End	1671
GI	6907086	Score	1280
Exons	325..436, 687..856, 917..1671		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37577	Seq. ID	OJ991109_13.0131.C16
Gene No.	77144	Strand	-
Start	1	End	3824
Name	OJ991109_13.0131.C16.o2.gs	Method	GENSCAN
Start	897	End	3236
GI	none	Score	.88
Exons	897..1446, 2127..2390, 2893..2976, 3166..3236		

Seq. No.	37577	Seq. ID	OJ991109_13.0131.C16
Gene No.	77144	Strand	-
Start	1	End	3824
Name	OJ991109_13.0131.C16.o4.np	Method	AAT/NAP
Start	2919	End	3824
GI	4680186	Score	182
Exons	2919..3340, 3736..3824		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o1.gs	Method	GENSCAN
Start	724	End	3743
GI	none	Score	.77
Exons	724..857, 1164..1463, 1540..1647, 2373..2419, 2557..2583, 2662..2799, 2865..2960, 3732..3743		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o1.gp	Method	AAT/GAP
Start	1997	End	2802
GI	70101_1.R1084	Score	903
Exons	1997..2232, 2373..2419, 2499..2583, 2662..2802		
GI Descrip.	'4680192/gb AAD27557.1 AF111710_3 2.0e-09 (AF111710) hypothetical protein [Oryza sativa subsp. indica]'		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o1.tc	Method	TBLASTX:Cress
Start	2077	End	3804
GI	none	Score	67
Exons	2077..2199, 2084..2200, 2373..2423, 2374..2421, 2656..2811, 2666..2800, 2864..2956, 2865..2978, 2866..2982, 2882..2980, 3403..3504, 3410..3505, 3577..3657, 3733..3804, 3734..3802		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o1.tm	Method	TBLASTX:Maize
Start	2089	End	3490

GI	none	Score	204
Exons	2089..2235, 2090..2233, 2291..2359, 2364..2423, 2371..2421, 2489..2584, 2497..2583, 2656..2802, 2663..2800, 2664..2807, 2665..2805, 2864..2980, 2865..2978, 3402..3488, 3403..3489, 3404..3490		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o1.ts	Method	TBLASTX:Soybean
Start	2089	End	3486
GI	none	Score	127
Exons	2089..2226, 2090..2212, 2371..2421, 2373..2423, 2489..2578, 2497..2583, 2644..2808, 2666..2800, 2865..2978, 2866..2982, 3403..3486, 3410..3484		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o1.np	Method	AAT/NAP
Start	2341	End	2799
GI	4680192	Score	82
Exons	2341..2447, 2479..2562, 2640..2799		
GI Descrip.	(AF111710) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	37578	Seq. ID	OJ991109_13.0131.C17
Gene No.	77145	Strand	-
Start	724	End	3804
Name	OJ991109_13.0131.C17.o2.gp	Method	AAT/GAP
Start	2852	End	3804
GI	31070_1.R1084	Score	637
Exons	2852..2978, 3403..3502, 3590..3656, 3732..3804		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	37579	Seq. ID	OJ991109_13.0131.C18
Gene No.	77146	Strand	-
Start	573	End	934
Name	OJ991109_13.0131.C18.o1.gs	Method	GENSCAN
Start	573	End	934
GI	none	Score	.81
Exons	573..680, 878..934		

Seq. No.	37580	Seq. ID	OJ991109_13.0131.C20
Gene No.	77147	Strand	-
Start	2122	End	4085
Name	OJ991109_13.0131.C20.o1.np	Method	AAT/NAP
Start	1972	End	4085
GI	6693020	Score	788
Exons	1972..1989, 3268..3614, 3712..4085		
GI Descrip.	(AC012375) T22C5.14 [Arabidopsis thaliana]		

Seq. No.	37580	Seq. ID	OJ991109_13.0131.C20
Gene No.	77147	Strand	-
Start	2122	End	4085
Name	OJ991109_13.0131.C20.o1.gs	Method	GENSCAN
Start	2122	End	4077

GI	none	Score	.68
Exons	2122..2271, 2952..3614, 3712..4077		
Seq. No.	37580	Seq. ID	OJ991109_13.0131.C20
Gene No.	77147	Strand	-
Start	2122	End	4085
Name	OJ991109_13.0131.C20.o1.gp	Method	AAT/GAP
Start	3019	End	3344
GI	2442558	Score	556
Exons	3019..3344		
GI Descrip.	4835767/gb AAD30234.1 AC007202_16 7.0e-17 (AC007202) T8K14.16 [Arabidopsis thaliana]		

Seq. No.	37580	Seq. ID	OJ991109_13.0131.C20
Gene No.	77147	Strand	-
Start	2122	End	4085
Name	OJ991109_13.0131.C20.o2.ts	Method	TBLASTX:Soybean
Start	3106	End	3515
GI	none	Score	225
Exons	3106..3150, 3156..3380, 3157..3375, 3328..3513, 3372..3515		

Seq. No.	37580	Seq. ID	OJ991109_13.0131.C20
Gene No.	77147	Strand	-
Start	2122	End	4085
Name	OJ991109_13.0131.C20.o1.tm	Method	TBLASTX:Maize
Start	3156	End	3861
GI	none	Score	97
Exons	3156..3245, 3157..3240, 3225..3287, 3247..3288, 3285..3455, 3285..3647, 3286..3651, 3700..3861, 3742..3861		

Seq. No.	37580	Seq. ID	OJ991109_13.0131.C20
Gene No.	77147	Strand	-
Start	2122	End	4085
Name	OJ991109_13.0131.C20.o1.ts	Method	TBLASTX:Soybean
Start	3519	End	4072
GI	none	Score	97
Exons	3519..3647, 3520..3615, 3712..3876, 3742..3912, 3743..3889, 3910..4071, 3920..4072		

Seq. No.	37581	Seq. ID	OJ991109_13.0131.C21
Gene No.	77148	Strand	-
Start	1	End	602
Name	OJ991109_13.0131.C21.o1.np	Method	AAT/NAP
Start	1	End	569
GI	6693020	Score	138
Exons	1..183, 220..367, 425..569		
GI Descrip.	(AC012375) T22C5.14 [Arabidopsis thaliana]		

Seq. No.	37581	Seq. ID	OJ991109_13.0131.C21
Gene No.	77148	Strand	-
Start	1	End	602
Name	OJ991109_13.0131.C21.o1.ts	Method	TBLASTX:Soybean
Start	42	End	602
GI	none	Score	63
Exons	42..137, 55..138, 225..344, 372..407, 466..591, 474..602		

Seq. No.	37582	Seq. ID	OJ991109_13.0131.C22
----------	-------	---------	----------------------

Gene No.	77149	Strand	+
Start	43	End	300
Name	OJ991109_13.0131.C22.o1.gp	Method	AAT/GAP
Start	43	End	300
GI	8022_1.R1084	Score	329
Exons	43..300		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	37582	Seq. ID	OJ991109_13.0131.C22
Gene No.	77150	Strand	+
Start	1439	End	2027
Name	OJ991109_13.0131.C22.o1.gs	Method	GENSCAN
Start	1439	End	2027
GI	none	Score	.53
Exons	1439..1469, 1903..2027		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77151	Strand	+
Start	3520	End	8362
Name	OJ991109_13.0131.C23.o1.np	Method	AAT/NAP
Start	3423	End	8362
GI	6069657	Score	166
Exons	3423..3671, 4719..4804, 8317..8362		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77151	Strand	+
Start	3520	End	8362
Name	OJ991109_13.0131.C23.o2.gs	Method	GENSCAN
Start	3520	End	7361
GI	none	Score	.7
Exons	3520..3788, 4121..4284, 4448..4512, 4601..4993, 6792..7039, 7100..7211, 7323..7361		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77152	Strand	-
Start	52	End	1859
Name	OJ991109_13.0131.C23.o1.gs	Method	GENSCAN
Start	52	End	1859
GI	none	Score	.75
Exons	52..148, 350..538, 1228..1859		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o3.gs	Method	GENSCAN
Start	8406	End	9109
GI	none	Score	.45
Exons	8406..8528, 8927..9109		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o4.tw	Method	TBLASTX:Wheat
Start	8807	End	9112
GI	none	Score	96



Exons 8807..8959, 8960..9112

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o2.tm	Method	TBLASTX:Maize
Start	8837	End	9320
GI	none	Score	49
Exons	8837..8905, 8838..8906, 8951..9316, 8952..9320		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o1.tw	Method	TBLASTX:Wheat
Start	9218	End	9766
GI	none	Score	85
Exons	9218..9316, 9407..9766, 9411..9524		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o1.ts	Method	TBLASTX:Soybean
Start	9392	End	9919
GI	none	Score	94
Exons	9392..9577, 9414..9557, 9566..9793, 9570..9788, 9863..9919		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o1.tm	Method	TBLASTX:Maize
Start	9500	End	10483
GI	none	Score	139
Exons	9500..9526, 9537..9812, 9548..10063, 9860..9985, 9864..9992, 10019..10483, 10047..10400, 10085..10405		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o2.tw	Method	TBLASTX:Wheat
Start	9776	End	10184
GI	none	Score	57
Exons	9776..9856, 9848..10003, 9860..9997, 10019..10183, 10047..10184		

Seq. No.	37583	Seq. ID	OJ991109_13.0131.C23
Gene No.	77153	Strand	-
Start	8406	End	10483
Name	OJ991109_13.0131.C23.o3.tw	Method	TBLASTX:Wheat
Start	10214	End	10429
GI	none	Score	99
Exons	10214..10429, 10257..10403		

Seq. No.	37584	Seq. ID	OJ991109_13.0131.C24
Gene No.	77154	Strand	+
Start	1	End	698
Name	OJ991109_13.0131.C24.o2.np	Method	AAT/NAP
Start	1	End	698
GI	4680183	Score	126

Exons 1..67, 607..698  
GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No.	37584	Seq. ID	OJ991109_13.0131.C24
Gene No.	77155	Strand	+
Start	942	End	1720
Name	OJ991109_13.0131.C24.o1.gs	Method	GENSCAN
Start	942	End	1720
GI	none	Score	.71
Exons	942..957, 1353..1720		

Seq. No.	37584	Seq. ID	OJ991109_13.0131.C24
Gene No.	77156	Strand	-
Start	1	End	576
Name	OJ991109_13.0131.C24.o1.np	Method	AAT/NAP
Start	1	End	576
GI	6721561	Score	82
Exons	1..30, 467..576		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37585	Seq. ID	OJ991109_13.0131.C25
Gene No.	77157	Strand	+
Start	121	End	779
Name	OJ991109_13.0131.C25.o1.np	Method	AAT/NAP
Start	121	End	779
GI	6721559	Score	282
Exons	121..600, 630..779		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37585	Seq. ID	OJ991109_13.0131.C25
Gene No.	77158	Strand	-
Start	17	End	2424
Name	OJ991109_13.0131.C25.o1.gs	Method	GENSCAN
Start	17	End	2424
GI	none	Score	.54
Exons	17..190, 2371..2424		

Seq. No.	37585	Seq. ID	OJ991109_13.0131.C25
Gene No.	77158	Strand	-
Start	17	End	2424
Name	OJ991109_13.0131.C25.o1.tm	Method	TBLASTX:Maize
Start	1046	End	1798
GI	none	Score	45
Exons	1046..1108, 1235..1339, 1322..1441, 1478..1732, 1763..1798		

Seq. No.	37585	Seq. ID	OJ991109_13.0131.C25
Gene No.	77158	Strand	-
Start	17	End	2424
Name	OJ991109_13.0131.C25.o1.tw	Method	TBLASTX:Wheat
Start	1235	End	1573
GI	none	Score	215

Exons 1235..1573

Seq. No.	37586	Seq. ID	OJ991209_04.0113.C1
Gene No.	77159	Strand	+
Start	33	End	2770
Name	OJ991209_04.0113.C1.o1.gs	Method	GENSCAN
Start	33	End	2770
GI	none	Score	.66
Exons	33..77, 2690..2770		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77160	Strand	+
Start	151	End	1730
Name	OJ991209_04.0113.C2.o1.gs	Method	GENSCAN
Start	151	End	1730
GI	none	Score	.93
Exons	151..209, 299..745, 1673..1730		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77161	Strand	+
Start	2890	End	6594
Name	OJ991209_04.0113.C2.o2.gs	Method	GENSCAN
Start	2890	End	5476
GI	none	Score	.85
Exons	2890..2983, 3680..3802, 4080..4238, 4368..5476		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77161	Strand	+
Start	2890	End	6594
Name	OJ991209_04.0113.C2.o1.np	Method	AAT/NAP
Start	3815	End	6594
GI	5803260	Score	388
Exons	3815..3937, 4075..4163, 4353..4607, 4722..5452, 6570..6594		
GI Descrip.	(AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o2.np	Method	AAT/NAP
Start	6717	End	19545
GI	5803260	Score	406
Exons	6717..6842, 15265..15814, 16031..16268, 17355..17459, 19138..19545		
GI Descrip.	(AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o4.gs	Method	GENSCAN
Start	9139	End	10625
GI	none	Score	.66
Exons	9139..9194, 9802..9917, 9956..10081, 10275..10408, 10554..10625		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o1.gp	Method	AAT/GAP

Start	9346	End	9425
GI	5455354	Score	111
Exons	9346..9425		
GI Descrip.	6016845/dbj AP000570.1 AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o2.gp	Method	AAT/GAP
Start	9425	End	9486
GI	4715947	Score	69
Exons	9425..9486		
GI Descrip.	2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882.gb AAF02797.1 AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o5.gs	Method	GENSCAN
Start	12512	End	12961
GI	none	Score	.8
Exons	12512..12961		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o6.gs	Method	GENSCAN
Start	15170	End	19480
GI	none	Score	.67
Exons	15170..15810, 16018..16268, 17355..17534, 19138..19343, 19370..19480		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77162	Strand	+
Start	6717	End	19545
Name	OJ991209_04.0113.C2.o4.gp	Method	AAT/GAP
Start	15876	End	15975
GI	LIB3477-003-P1-K1-E9	Score	159
Exons	15876..15975		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1' PRECURSOR (ORY S I) >gi_1173557 (U31771) 'Ory s 1' [Oryza sativa]		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77163	Strand	-
Start	7381	End	19545
Name	OJ991209_04.0113.C2.o1.tc	Method	TBLASTX:Cress
Start	189	End	19540
GI	none	Score	67
Exons	189..248, 477..611, 603..659, 3694..3783, 3789..3914, 4748..4888, 4750..4872, 4973..5077, 5002..5097, 5093..5296, 5157..5183, 5351..5449, 6786..6845, 15245..15316, 15539..15652, 15662..15694, 16094..16123, 16181..16264, 19217..19249,		

19325..19396, 19403..19540

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77163	Strand	-
Start	7381	End	19545
Name	OJ991209_04.0113.C2.o1.tw	Method	TBLASTX:Wheat
Start	4532	End	5065
GI	none	Score	49
Exons	4532..4639, 4748..4993, 4810..4947, 4988..5065, 5002..5064		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77163	Strand	-
Start	7381	End	19545
Name	OJ991209_04.0113.C2.o1.ts	Method	TBLASTX:Soybean
Start	4747	End	19545
GI	none	Score	144
Exons	4747..4881, 4748..4888, 4973..5077, 5066..5209, 19266..19334, 19325..19414, 19427..19543, 19474..19545		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77163	Strand	-
Start	7381	End	19545
Name	OJ991209_04.0113.C2.o1.tm	Method	TBLASTX:Maize
Start	4748	End	5215
GI	none	Score	162
Exons	4748..4993, 4810..4947, 4988..5065, 5002..5064, 5093..5215		

Seq. No.	37587	Seq. ID	OJ991209_04.0113.C2
Gene No.	77163	Strand	-
Start	7381	End	19545
Name	OJ991209_04.0113.C2.o3.gs	Method	GENSCAN
Start	7381	End	8496
GI	none	Score	.54
Exons	7381..7528, 8483..8496		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77164	Strand	+
Start	14848	End	20708
Name	OJ991209_04.0113.C5.o3.gs	Method	GENSCAN
Start	14848	End	15356
GI	none	Score	.68
Exons	14848..14926, 14959..15356		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77164	Strand	+
Start	14848	End	20708
Name	OJ991209_04.0113.C5.o1.np	Method	AAT/NAP
Start	15136	End	19770
GI	4680203	Score	3326
Exons	15136..15221, 16460..18132, 18286..18516, 18793..19770		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77164	Strand	+
Start	14848	End	20708
Name	OJ991209_04.0113.C5.o1.gp	Method	AAT/GAP
Start	16464	End	20550

GI 342\_1.R1084 Score 6636  
 Exons 16464..19863, 19899..19918, 20001..20098, 20207..20550  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
 Gene No. 77164 Strand +  
 Start 14848 End 20708  
 Name OJ991209\_04.0113.C5.o3.gp Method AAT/GAP  
 Start 16464 End 20545  
 GI 342\_1.R1084 Score 6626  
 Exons 16464..19863, 19899..19918, 20001..20098, 20207..20545  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
 Gene No. 77164 Strand +  
 Start 14848 End 20708  
 Name OJ991209\_04.0113.C5.o2.gp Method AAT/GAP  
 Start 16464 End 20554  
 GI 342\_1.R1084 Score 6644  
 Exons 16464..19863, 19899..19918, 20001..20098, 20207..20554  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
 Gene No. 77164 Strand +  
 Start 14848 End 20708  
 Name OJ991209\_04.0113.C5.o4.gp Method AAT/GAP  
 Start 16626 End 20708  
 GI 342\_1.R1084 Score 6712  
 Exons 16626..19863, 19899..19918, 20001..20098, 20207..20708  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
 Gene No. 77164 Strand +  
 Start 14848 End 20708  
 Name OJ991209\_04.0113.C5.o5.gp Method AAT/GAP  
 Start 16629 End 20708  
 GI 342\_1.R1084 Score 6706  
 Exons 16629..19863, 19899..19918, 20001..20098, 20207..20708  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
 Gene No. 77165 Strand +  
 Start 30327 End 32680  
 Name OJ991209\_04.0113.C5.o5.gs Method GENSCAN  
 Start 30327 End 32680  
 GI none Score .63  
 Exons 30327..30405, 31037..31068, 32543..32680

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
 Gene No. 77166 Strand +  
 Start 36472 End 37394  
 Name OJ991209\_04.0113.C5.o7.gs Method GENSCAN

Start	36472	End	37394
GI	none	Score	.59
Exons	36472..36509, 36796..36975, 37103..37258, 37289..37394		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77167	Strand	+
Start	42390	End	43774
Name	OJ991209_04.0113.C5.o5.np	Method	AAT/NAP
Start	42390	End	43774
GI	1565285	Score	133
Exons	42390..42427, 43454..43774		
GI Descrip.	(Y08373) calmodulin [Toxoplasma gondii]		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77168	Strand	-
Start	9821	End	12460
Name	OJ991209_04.0113.C5.o2.gs	Method	GENSCAN
Start	9821	End	12460
GI	none	Score	.84
Exons	9821..10896, 11108..11293, 12286..12460		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77169	Strand	-
Start	26748	End	26888
Name	OJ991209_04.0113.C5.o6.gp	Method	AAT/GAP
Start	26748	End	26888
GI	21474_1.R1084	Score	228
Exons	26748..26888		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o1.tm	Method	TBLASTX:Maize
Start	10065	End	35034
GI	none	Score	84
Exons	10065..10175, 10082..10180, 10217..10366, 10218..10292, 10403..10537, 10419..10532, 34390..34506, 34391..34483, 34516..34623, 34538..34618, 34642..34884, 34739..34825, 34903..35034, 34910..34972		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o1.tc	Method	TBLASTX:Cress
Start	10079	End	40203
GI	none	Score	83
Exons	10079..10180, 10199..10387, 10400..10537, 10419..10532, 10661..10717, 10787..10816, 12311..12433, 15210..15287, 34339..34506, 34388..34483, 34516..34623, 34517..34618, 34639..34896, 34727..34825, 34903..35043, 34907..34972, 35051..35095, 39268..39384, 39661..39690, 39751..39792, 39811..39924, 40129..40203		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-

Start	33066	End	46038
Name	OJ991209_04.0113.C5.o1.ts	Method	TBLASTX:Soybean
Start	10082	End	35034
GI	none	Score	69
Exons	10082..10180, 10086..10175, 10217..10369, 10400..10537, 10419..10517, 10661..10717, 10784..10816, 34339..34509, 34528..34623, 34642..34872, 34727..34825, 34880..34972, 34888..35034		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o6.tw	Method	TBLASTX:Wheat
Start	10229	End	34626
GI	none	Score	65
Exons	10229..10531, 10595..10726, 34549..34626		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o4.tw	Method	TBLASTX:Wheat
Start	16765	End	17161
GI	none	Score	104
Exons	16765..16917, 16900..17151, 16908..17150, 16910..17161		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o2.ts	Method	TBLASTX:Soybean
Start	17082	End	17511
GI	none	Score	102
Exons	17082..17165, 17083..17157, 17158..17220, 17215..17511, 17269..17493		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o3.tc	Method	TBLASTX:Cress
Start	17244	End	17592
GI	none	Score	318
Exons	17244..17396, 17251..17592, 17436..17573		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o2.tw	Method	TBLASTX:Wheat
Start	17380	End	17849
GI	none	Score	72
Exons	17380..17433, 17388..17432, 17434..17538, 17445..17534, 17542..17640, 17547..17639, 17620..17844, 17641..17844, 17643..17849		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o2.tm	Method	TBLASTX:Maize
Start	17425	End	17883



GI none Score 247  
Exons 17425..17679, 17437..17679, 17689..17883

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
Gene No. 77170 Strand -  
Start 33066 End 46038  
Name OJ991209\_04.0113.C5.o3.ts Method TBLASTX:Soybean  
Start 17713 End 17955  
GI none Score 214  
Exons 17713..17955

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
Gene No. 77170 Strand -  
Start 33066 End 46038  
Name OJ991209\_04.0113.C5.o3.tw Method TBLASTX:Wheat  
Start 17988 End 18398  
GI none Score 87  
Exons 17988..18038, 17989..18051, 18057..18239, 18061..18279,  
18312..18398, 18313..18396

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
Gene No. 77170 Strand -  
Start 33066 End 46038  
Name OJ991209\_04.0113.C5.o1.tw Method TBLASTX:Wheat  
Start 18399 End 19716  
GI none Score 332  
Exons 18399..19124, 18399..19301, 18400..19317, 19312..19356,  
19316..19351, 19359..19454, 19363..19422, 19401..19541,  
19402..19542, 19555..19635, 19624..19716

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
Gene No. 77170 Strand -  
Start 33066 End 46038  
Name OJ991209\_04.0113.C5.o3.tm Method TBLASTX:Maize  
Start 18442 End 18756  
GI none Score 307  
Exons 18442..18756, 18453..18728, 18526..18756

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
Gene No. 77170 Strand -  
Start 33066 End 46038  
Name OJ991209\_04.0113.C5.o2.tc Method TBLASTX:Cress  
Start 18683 End 19134  
GI none Score 166  
Exons 18683..18865, 18687..19124, 18687..19130, 18691..19134,  
18985..19134

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5  
Gene No. 77170 Strand -  
Start 33066 End 46038  
Name OJ991209\_04.0113.C5.o5.tw Method TBLASTX:Wheat  
Start 23379 End 23782  
GI none Score 62  
Exons 23379..23519, 23379..23495, 23381..23617, 23381..23530,  
23482..23649, 23612..23782, 23687..23782

Seq. No. 37588 Seq. ID OJ991209\_04.0113.C5

Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o7.tw	Method	TBLASTX:Wheat
Start	25249	End	25771
GI	none	Score	60
Exons	25249..25329, 25418..25600, 25468..25593, 25700..25771		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o3.np	Method	AAT/NAP
Start	33066	End	46038
GI	1352360	Score	55
Exons	33066..33098, 36913..37060, 38086..38234, 39283..39457, 45928..46038		

GI Descrip. PRO-EPIDERMAL GROWTH FACTOR PRECURSOR (EGF) [CONTAINS: EPIDERMAL GROWTH FACTOR] gi|2118518|pir||I52995 preproepidermal growth factor - rat gi|440237 (U04842) preproepidermal growth factor [Rattus norvegicus]

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o2.np	Method	AAT/NAP
Start	33991	End	37227
GI	3355308	Score	431
Exons	33991..35046, 37204..37227		
GI Descrip.	(AJ009695) wall-associated kinase 4 [Arabidopsis thaliana]		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o6.gs	Method	GENSCAN
Start	34132	End	35046
GI	none	Score	.76
Exons	34132..35046		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o8.gs	Method	GENSCAN
Start	37847	End	40287
GI	none	Score	.72
Exons	37847..37896, 38045..38224, 39264..39514, 39653..40287		

Seq. No.	37588	Seq. ID	OJ991209_04.0113.C5
Gene No.	77170	Strand	-
Start	33066	End	46038
Name	OJ991209_04.0113.C5.o9.gs	Method	GENSCAN
Start	44559	End	45371
GI	none	Score	.78
Exons	44559..44702, 45363..45371		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77171	Strand	+
Start	1	End	7747
Name	OJ991209_04.0113.C6.o1.np	Method	AAT/NAP

Start	1	End	3321
GI	4680203	Score	569
Exons	1..509, 3278..3321		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77171	Strand	+
Start	1	End	7747
Name	OJ991209_04.0113.C6.o1.gs	Method	GENSCAN
Start	63	End	496
GI	none	Score	.46
Exons	63..235, 371..496		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77171	Strand	+
Start	1	End	7747
Name	OJ991209_04.0113.C6.o2.np	Method	AAT/NAP
Start	2101	End	7747
GI	6498441	Score	6870
Exons	2101..3164, 3495..3958, 4022..4395, 4579..4713, 4888..5131, 5324..5803, 5975..7372, 7466..7747		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o8.tw	Method	TBLASTX:Wheat
Start	7	End	427
GI	none	Score	124
Exons	7..129, 8..133, 119..190, 142..189, 211..273, 215..331, 335..427		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o2.ts	Method	TBLASTX:Soybean
Start	46	End	424
GI	none	Score	102
Exons	46..129, 47..121, 122..184, 179..424, 233..421		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o6.tw	Method	TBLASTX:Wheat
Start	2249	End	2641
GI	none	Score	58
Exons	2249..2296, 2303..2401, 2320..2400, 2368..2607, 2384..2641		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o4.tm	Method	TBLASTX:Maize
Start	2254	End	2539
GI	none	Score	184
Exons	2254..2538, 2291..2539		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o5.tw	Method	TBLASTX:Wheat
Start	2649	End	6109
GI	none	Score	227
Exons	2649..2702, 5675..5899, 5690..5899, 5740..5901, 5797..5901, 5960..6109, 5960..6106, 5971..6108		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o3.tw	Method	TBLASTX:Wheat
Start	3379	End	3988
GI	none	Score	412
Exons	3379..3552, 3380..3865, 3574..3834, 3644..3838, 3932..3988		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o1.tw	Method	TBLASTX:Wheat
Start	4029	End	4492
GI	none	Score	213
Exons	4029..4472, 4030..4491, 4031..4492		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o4.ts	Method	TBLASTX:Soybean
Start	4070	End	4435
GI	none	Score	117
Exons	4070..4294, 4301..4435		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o1.tm	Method	TBLASTX:Maize
Start	4160	End	4516
GI	none	Score	392
Exons	4160..4516, 4195..4506, 4211..4516		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o2.tm	Method	TBLASTX:Maize
Start	4543	End	4927
GI	none	Score	359
Exons	4543..4908, 4544..4927		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o2.tw	Method	TBLASTX:Wheat
Start	4600	End	5025
GI	none	Score	493
Exons	4600..5025, 4601..5020		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o1.ts	Method	TBLASTX:Soybean
Start	4679	End	5050
GI	none	Score	278
Exons	4679..5050, 4696..4839		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o3.ts	Method	TBLASTX:Soybean
Start	5798	End	6364
GI	5666795	Score	68
Exons	5798..5896, 5972..6109, 6164..6364		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o9.tw	Method	TBLASTX:Wheat
Start	6112	End	6415
GI	none	Score	183
Exons	6112..6288, 6164..6415		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o3.tm	Method	TBLASTX:Maize
Start	6626	End	6979
GI	none	Score	359
Exons	6626..6940, 6661..6927, 6932..6979		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o4.tw	Method	TBLASTX:Wheat
Start	6754	End	7135
GI	none	Score	369
Exons	6754..6810, 6755..7135, 6856..7104		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o7.tw	Method	TBLASTX:Wheat
Start	7136	End	7738
GI	none	Score	264
Exons	7136..7420, 7140..7211, 7141..7419, 7274..7552, 7612..7734, 7613..7738		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o5.tm	Method	TBLASTX:Maize
Start	7607	End	7747
GI	none	Score	183
Exons	7607..7747, 7612..7746		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o3.gs	Method	GENSCAN
Start	8392	End	8772
GI	none	Score	.69
Exons	8392..8772		

Seq. No.	37589	Seq. ID	OJ991209_04.0113.C6
Gene No.	77172	Strand	-
Start	8392	End	9066
Name	OJ991209_04.0113.C6.o3.np	Method	AAT/NAP
Start	8395	End	9066
GI	5803259	Score	917
Exons	8395..9066		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	37590	Seq. ID	OJ991209_04.0113.C7
Gene No.	77173	Strand	-
Start	1	End	2080
Name	OJ991209_04.0113.C7.o1.np	Method	AAT/NAP
Start	1	End	2080
GI	6907089	Score	2882
Exons	1..721, 819..2080		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37590	Seq. ID	OJ991209_04.0113.C7
Gene No.	77173	Strand	-
Start	1	End	2080
Name	OJ991209_04.0113.C7.o1.gs	Method	GENSCAN
Start	46	End	2080
GI	none	Score	.71
Exons	46..314, 399..721, 819..2080		

Seq. No.	37591	Seq. ID	OJ991209_04.0113.C8
Gene No.	77174	Strand	+
Start	321	End	1199
Name	OJ991209_04.0113.C8.o1.tc	Method	TBLASTX:Cress
Start	303	End	967
GI	none	Score	247
Exons	303..683, 395..430, 521..682, 794..919, 795..884, 905..967		

Seq. No.	37591	Seq. ID	OJ991209_04.0113.C8
Gene No.	77174	Strand	+
Start	321	End	1199
Name	OJ991209_04.0113.C8.o1.tw	Method	TBLASTX:Wheat
Start	303	End	683
GI	none	Score	81
Exons	303..428, 450..683		

Seq. No.	37591	Seq. ID	OJ991209_04.0113.C8
Gene No.	77174	Strand	+
Start	321	End	1199
Name	OJ991209_04.0113.C8.o1.ts	Method	TBLASTX:Soybean
Start	303	End	926
GI	none	Score	248

Exons 303..683, 795..926

Seq. No.	37591	Seq. ID	OJ991209_04.0113.C8
Gene No.	77174	Strand	+
Start	321	End	1199
Name	OJ991209_04.0113.C8.o1.gs	Method	GENSCAN
Start	321	End	1199
GI	none	Score	.85
Exons	321..684, 796..1199		

Seq. No.	37591	Seq. ID	OJ991209_04.0113.C8
Gene No.	77174	Strand	+
Start	321	End	1199
Name	OJ991209_04.0113.C8.o1.tm	Method	TBLASTX:Maize
Start	557	End	1145
GI	none	Score	188
Exons	557..682, 558..683, 794..991, 795..983, 1077..1145		

Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77175	Strand	-
Start	83	End	631
Name	OJ991209_04.0113.C9.o1.gs	Method	GENSCAN
Start	83	End	631
GI	none	Score	.98
Exons	83..276, 532..631		

Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77176	Strand	-
Start	586	End	2238
Name	OJ991209_04.0113.C9.o1.np	Method	AAT/NAP
Start	586	End	2238
GI	421955	Score	832
Exons	586..686, 1497..2238		
GI Descrip.	hypothetical protein 4 - potato transposon Tst1 gi 21434 emb CAA36616  (X52387) ORF4 [Solanum tuberosum]		

Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77176	Strand	-
Start	586	End	2238
Name	OJ991209_04.0113.C9.o1.ts	Method	TBLASTX:Soybean
Start	1330	End	2025
GI	none	Score	59
Exons	1330..1404, 1330..1617, 1523..1792, 1678..2025, 1853..2023		

Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77176	Strand	-
Start	586	End	2238
Name	OJ991209_04.0113.C9.o1.tm	Method	TBLASTX:Maize
Start	1339	End	2043
GI	none	Score	66
Exons	1339..1605, 1529..1606, 1637..1789, 1687..2043		

Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77176	Strand	-
Start	586	End	2238
Name	OJ991209_04.0113.C9.o2.gs	Method	GENSCAN
Start	1363	End	2121

GI	none	Score	.9
Exons	1363..2121		
Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77176	Strand	-
Start	586	End	2238
Name	OJ991209_04.0113.C9.o1.tw	Method	TBLASTX:Wheat
Start	1789	End	2217
GI	none	Score	37
Exons	1789..2034, 1795..1833, 1904..2035, 2054..2209, 2065..2217		

Seq. No.	37592	Seq. ID	OJ991209_04.0113.C9
Gene No.	77176	Strand	-
Start	586	End	2238
Name	OJ991209_04.0113.C9.o2.ts	Method	TBLASTX:Soybean
Start	2053	End	2232
GI	none	Score	120
Exons	2053..2232, 2087..2230		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o1.np	Method	AAT/NAP
Start	1	End	222
GI	1621477	Score	157
Exons	1..222		
GI Descrip.	(D85868) reverse transcriptase [Oryza sativa]		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o2.np	Method	AAT/NAP
Start	1	End	15152
GI	1184077	Score	1395
Exons	1..27, 2157..3307, 3530..4038, 13068..13683, 13909..14091, 14605..15152		
GI Descrip.	(U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o1.gs	Method	GENSCAN
Start	767	End	4323
GI	none	Score	.55
Exons	767..990, 1249..1793, 1812..1923, 2447..4087, 4101..4235, 4263..4323		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o1.tm	Method	TBLASTX:Maize
Start	839	End	12392
GI	none	Score	87
Exons	839..931, 840..944, 918..1145, 940..1149, 953..1144, 1239..1358, 1250..1375, 1251..1376, 10162..10269, 10163..10228, 11863..12165, 11864..12166, 11868..12167, 11886..12170, 11960..12169, 12266..12391, 12267..12392		



Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o2.ts	Method	TBLASTX:Soybean
Start	953	End	12814
GI	none	Score	72
Exons	953..1126, 1005..1115, 1250..1492, 1251..1391, 1493..1786, 1503..1742, 11974..12165, 12032..12148, 12266..12505, 12267..12407, 12272..12418, 12506..12814, 12519..12578		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o1.tc	Method	TBLASTX:Cress
Start	1046	End	14893
GI	none	Score	91
Exons	1046..1126, 1316..1492, 1320..1493, 1493..1639, 1497..1562, 1655..1768, 2214..2579, 2217..2915, 2217..2648, 2217..2786, 2217..2528, 2220..2924, 2220..2351, 2220..2258, 2220..2855, 2241..2420, 2277..2924, 2283..2591, 2304..2492, 2346..2918, 2346..2657, 2412..2900, 2425..2640, 2436..2486, 2448..2639, 2487..2918, 2571..2873, 2574..2780, 2626..2775, 2658..2855, 2706..2900, 2919..3014, 2919..3014, 2922..3011, 2931..3011, 3162..3578, 3162..3332, 3165..3323, 3165..3320, 3219..3335, 3327..3476, 3327..3488, 3525..3722, 3531..3680, 3552..3803, 3585..3722, 3603..3701, 3723..3833, 3741..3833, 3750..3833, 3885..4055, 3894..4046, 3894..4004, 3945..4049, 12067..12165, 12332..12499, 12333..12500, 12506..12655, 12513..12578, 12671..12772, 13001..13126, 13007..13045, 13019..13375, 13039..13089, 13061..13426, 13064..13762, 13064..13486, 13067..13714, 13067..13114, 13067..13198, 13088..13267, 13115..13738, 13130..13438, 13151..13339, 13193..13504, 13214..13360, 13259..13765, 13274..13351, 13298..13486, 13337..13648, 13367..13555, 13392..13598, 13413..13583, 13418..13723, 13421..13627, 13481..13732, 13502..13621, 13553..13738, 13565..13621, 13632..13736, 13634..13765, 13757..13858, 13769..13861, 13868..14143, 13871..14425, 13871..14185, 13919..14167, 14063..14185, 14177..14362, 14180..14350, 14354..14497, 14372..14572, 14378..14683, 14441..14572, 14525..14581, 14588..14893		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o1.tw	Method	TBLASTX:Wheat
Start	1250	End	12646
GI	none	Score	59
Exons	1250..1483, 1493..1630, 12266..12499, 12338..12487, 12497..12646		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o3.tm	Method	TBLASTX:Maize
Start	1544	End	12823
GI	none	Score	196
Exons	1544..1786, 1545..1745, 1546..1785, 12560..12823, 12560..12823		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o2.tw	Method	TBLASTX:Wheat
Start	2181	End	14923
GI	none	Score	66
Exons	2181..2285, 2217..2345, 2220..2411, 2310..2549, 2481..2711, 2673..3047, 2722..2955, 3165..3290, 3621..3722, 3741..3833, 3823..3978, 13028..13132, 13064..13192, 13067..13249, 13184..13405, 13325..13543, 13473..13583, 13520..13867, 13641..13808, 13877..14059, 13877..13993, 14468..14641, 14504..14569, 14670..14768, 14729..14923		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o2.tm	Method	TBLASTX:Maize
Start	2217	End	14902
GI	none	Score	70
Exons	2217..2558, 2220..2834, 2220..2699, 2241..2918, 2313..2927, 2406..2471, 2454..2921, 2578..2802, 2919..3014, 3089..3154, 3162..3335, 3162..3284, 3165..3323, 3165..3320, 3165..3320, 3186..3320, 3324..3479, 3519..3743, 3531..3722, 3531..3722, 3723..4004, 3741..4055, 3768..4055, 13064..13393, 13065..13295, 13067..13681, 13067..13333, 13068..13223, 13160..13738, 13250..13318, 13304..13765, 13350..13583, 13488..13655, 13768..13809, 13773..13808, 13871..14167, 13871..14131, 13871..14062, 13871..14170, 13871..14167, 13871..14167, 13889..14167, 13941..14039, 13961..14182, 14180..14326, 14366..14563, 14373..14489, 14378..14572, 14378..14560, 14424..14546, 14498..14548, 14588..14902		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o1.ts	Method	TBLASTX:Soybean
Start	2220	End	14902
GI	none	Score	36
Exons	2220..2780, 2220..2711, 2223..2927, 2274..2405, 2437..2664, 2500..2682, 2721..2900, 2725..2757, 2794..2919, 3031..3285, 3162..3320, 3165..3335, 3165..3332, 3165..3284, 3381..3449, 3519..3722, 3519..3743, 3525..3722, 3531..3713, 3531..3722, 3531..3734, 3531..3722, 3606..3740, 3723..3833, 3735..4055, 3741..3962, 3741..3833, 3741..4055, 3753..4055, 13019..13132, 13020..13151, 13067..13627, 13070..13738, 13142..13744, 13364..13762, 13476..13592, 13568..13741, 13641..13754, 13644..13751, 13859..14167, 13871..14179, 13871..14131, 13877..14167, 13877..14167, 13878..14132, 13943..14182, 14366..14572, 14366..14563, 14378..14572, 14378..14506, 14378..14560, 14378..14569, 14378..14572, 14379..14549, 14453..14587, 14588..14902		

Seq. No.	37593	Seq. ID	OJ991209_04.0113.C10
Gene No.	77177	Strand	-
Start	1	End	15152
Name	OJ991209_04.0113.C10.o3.gs	Method	GENSCAN

Start 11776  
GI none  
Exons 11776..12164, 12265..15090

End 15090  
Score .45

Seq. No. 37594  
Gene No. 77178  
Start 1  
Name OJ991209\_04.0113.C11.o4.np  
Start 1  
GI 5917664  
Exons 1..32, 851..1007, 13071..13301, 15451..15582  
GI Descrip. (AF159296) extensin-like protein [*Lycopersicon esculentum*]

Seq. ID OJ991209\_04.0113.C11  
Strand +  
End 15582  
Method AAT/NAP  
End 15582  
Score 139

Seq. No. 37594  
Gene No. 77178  
Start 1  
Name OJ991209\_04.0113.C11.o1.gs  
Start 870  
GI none  
Exons 870..1048

Seq. ID OJ991209\_04.0113.C11  
Strand +  
End 15582  
Method GENSCAN  
End 1048  
Score .52

Seq. No. 37594  
Gene No. 77179  
Start 1755  
Name OJ991209\_04.0113.C11.o2.gs  
Start 1755  
GI none  
Exons 1755..1882, 1992..2140, 2297..5145

Seq. ID OJ991209\_04.0113.C11  
Strand -  
End 5145  
Method GENSCAN  
End 5145  
Score .62

Seq. No. 37594  
Gene No. 77179  
Start 1755  
Name OJ991209\_04.0113.C11.o1.np  
Start 1785  
GI 6522541  
Exons 1785..2140, 2237..3855, 4135..5112  
GI Descrip. (AL132955) receptor-kinase like protein [*Arabidopsis thaliana*]

Seq. ID OJ991209\_04.0113.C11  
Strand -  
End 5145  
Method AAT/NAP  
End 5112  
Score 1383

Seq. No. 37594  
Gene No. 77180  
Start 5954  
Name OJ991209\_04.0113.C11.o3.gs  
Start 5954  
GI none  
Exons 5954..6342, 6444..7585, 7658..9369

Seq. ID OJ991209\_04.0113.C11  
Strand -  
End 9369  
Method GENSCAN  
End 9369  
Score .97

Seq. No. 37594  
Gene No. 77180  
Start 5954  
Name OJ991209\_04.0113.C11.o2.np  
Start 5993  
GI 2586083  
Exons 5993..6342, 6444..8081, 8361..8805, 8878..9339  
GI Descrip. (U72725) receptor kinase-like protein [*Oryza longistaminata*]

Seq. ID OJ991209\_04.0113.C11  
Strand -  
End 9369  
Method AAT/NAP  
End 9339  
Score 1466

Seq. No. 37594  
Gene No. 77181

Seq. ID OJ991209\_04.0113.C11  
Strand -

Start	11066	End	15172
Name	OJ991209_04.0113.C11.o1.ts	Method	TBLASTX:Soybean
Start	1806	End	11635
GI	none	Score	96
Exons	1806..1940, 1956..2153, 2008..2151, 2268..2342, 2318..2470, 2323..2469, 2500..2553, 2539..2778, 2540..2629, 2653..2778, 6158..6343, 6171..6344, 6457..6678, 6508..6666, 6509..6679, 6709..6762, 6748..6987, 6749..6838, 11333..11404, 11478..11612, 11480..11635		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o1.tm	Method	TBLASTX:Maize
Start	1842	End	11527
GI	none	Score	69
Exons	1842..1946, 1843..1947, 1908..2153, 1941..2138, 1964..2143, 1996..2151, 2193..2342, 2193..2342, 2239..2343, 6041..6343, 6042..6344, 6064..6348, 6138..6347, 6445..6570, 6446..6571, 11330..11386, 11462..11527		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o1.tc	Method	TBLASTX:Cress
Start	2043	End	11791
GI	none	Score	46
Exons	2043..2153, 2304..2336, 2341..2484, 2360..2482, 2477..2626, 2482..2625, 2641..2736, 2983..3027, 2995..3351, 3040..3738, 3040..3678, 3040..3609, 3094..3243, 3100..3747, 3106..3414, 3112..3747, 3169..3480, 3229..3552, 3235..3723, 3250..3327, 3265..3462, 3343..3531, 3385..3747, 3394..3699, 3397..3597, 3398..3625, 3481..3678, 3529..3714, 3541..3597, 3553..3822, 3610..3741, 3742..3837, 3742..3837, 3847..4341, 3847..4146, 3847..4143, 3847..4119, 3895..4143, 3908..4093, 4042..4146, 4060..4158, 4150..4326, 4150..4302, 4405..4503, 4408..4545, 4426..4545, 4426..4536, 4426..4545, 4564..4791, 4570..4725, 4639..4872, 4639..4872, 4642..4773, 4645..4899, 4648..4791, 4657..4791, 4768..4908, 6245..6343, 6511..6684, 6512..6679, 6685..6834, 6692..6757, 7189..7233, 7201..7557, 7243..7815, 7246..7920, 7249..7953, 7249..7884, 7306..7953, 7312..7620, 7313..7507, 7375..7692, 7441..7920, 7441..7758, 7477..7668, 7600..8043, 7681..7791, 7774..7920, 8005..8592, 8053..8349, 8053..8349, 8053..8349, 8053..8349, 8113..8169, 8120..8383, 8128..8391, 8350..8532, 8350..8508, 8350..8553, 8560..8751, 8560..8910, 8560..8979, 8560..8751, 8560..8679, 8560..8733, 8581..8847, 8608..8751, 8752..8910, 8764..9078, 8767..9084, 8770..9117, 8770..9054, 8770..9075, 8770..9084, 8770..9105, 8830..9099, 8833..9078, 8863..9054, 8905..9120, 8974..9126, 11330..11386, 11468..11620, 11651..11791		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o1.tw	Method	TBLASTX:Wheat
Start	2226	End	11782
GI	none	Score	60

Exons 2226..2330, 2341..2469, 2482..2616, 6445..6684, 6676..6825,  
11468..11620, 11480..11623, 11651..11782

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o4.tm	Method	TBLASTX:Maize
Start	2344	End	11750
GI	none	Score	105
Exons	2344..2526, 6574..6735, 11528..11749, 11529..11750		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o3.tm	Method	TBLASTX:Maize
Start	2530	End	7002
GI	none	Score	119
Exons	2530..2793, 2531..2671, 2539..2793, 6739..7002, 6739..7002		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o2.ts	Method	TBLASTX:Soybean
Start	3043	End	9264
GI	none	Score	64
Exons	3043..3624, 3043..3420, 3100..3792, 3115..3741, 3187..3744, 3328..3513, 3538..3714, 3608..3718, 3841..4146, 3842..4150, 3847..4146, 3847..4131, 3847..4143, 3853..4146, 3899..4012, 4034..4183, 4411..4545, 4555..4791, 4558..4791, 4564..4743, 4573..4791, 4573..4758, 4642..4899, 4645..4791, 4888..5055, 7243..7830, 7249..7554, 7306..7998, 7321..7920, 7675..7920, 7753..7923, 8047..8349, 8053..8349, 8053..8349, 8053..8349, 8059..8349, 8105..8356, 8105..8350, 8111..8350, 8122..8349, 8323..8517, 8324..8500, 8350..8517, 8350..8514, 8350..8541, 8554..8796, 8560..8751, 8560..8751, 8560..8751, 8560..8757, 8560..8751, 8561..8734, 8761..9117, 8764..9015, 8770..9105, 8770..9084, 8770..9084, 8776..9144, 8785..9084, 9136..9264		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o2.tw	Method	TBLASTX:Wheat
Start	3106	End	9084
GI	none	Score	59
Exons	3106..3306, 3133..3384, 3301..3519, 3449..3559, 3496..3846, 3853..4035, 3889..4113, 3937..4146, 3962..4144, 4144..4197, 4177..4338, 4444..4545, 4645..4764, 4690..4791, 7243..7374, 7339..7584, 7366..7440, 7507..7752, 7702..8052, 8059..8241, 8068..8406, 8111..8278, 8161..8475, 8350..8619, 8554..8844, 8725..8970, 8800..9042, 8896..9084		

Seq. No.	37594	Seq. ID	OJ991209_04.0113.C11
Gene No.	77181	Strand	-
Start	11066	End	15172
Name	OJ991209_04.0113.C11.o2.tm	Method	TBLASTX:Maize
Start	3160	End	9120
GI	none	Score	177

Exons 3160..3258, 3190..3492, 3262..3564, 3415..3708, 3740..4006,  
3745..4239, 4052..4168, 4237..4338, 4243..4338, 4279..4338,  
4282..4338, 4405..4566, 4408..4545, 4417..4515, 4480..4560,  
4590..4631, 4639..4746, 4645..4791, 4648..4791, 4675..4740,  
7390..7461, 7396..7710, 7438..7518, 7468..7770, 7708..7812,  
7946..8212, 7951..8451, 8255..8350, 8443..8541, 8450..8539,  
8453..8551, 8554..8721, 8641..8763, 8725..9021, 8782..9084,  
8854..9117, 8896..8988, 8932..9120

Seq. No. 37594 Seq. ID OJ991209\_04.0113.C11  
Gene No. 77181 Strand -  
Start 11066 End 15172  
Name OJ991209\_04.0113.C11.o3.np Method AAT/NAP  
Start 10997 End 14825  
GI 4938475 Score 216  
Exons 10997..11820, 11887..12152, 14803..14825  
GI Descrip. (AL078464) serine/threonine-specific receptor protein kinase  
LRRPK [Arabidopsis thaliana]

Seq. No. 37594 Seq. ID OJ991209\_04.0113.C11  
Gene No. 77181 Strand -  
Start 11066 End 15172  
Name OJ991209\_04.0113.C11.o4.gs Method GENSCAN  
Start 11066 End 15172  
GI none Score .91  
Exons 11066..12076, 12798..12930, 13388..13487, 14282..14476,  
14898..15172

Seq. No. 37595 Seq. ID OJ991209\_04.0113.C12  
Gene No. 77182 Strand +  
Start 4709 End 5346  
Name OJ991209\_04.0113.C12.o2.np Method AAT/NAP  
Start 4709 End 5346  
GI 6069646 Score 723  
Exons 4709..5346  
GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315)  
[Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to  
Arabidopsis thaliana chromosome II BAC F9013 genomic sequence,  
putative non-LTR retroelement reverse transcriptase. (AC006248)  
[Oryza sativa]

Seq. No. 37595 Seq. ID OJ991209\_04.0113.C12  
Gene No. 77183 Strand -  
Start 1015 End 3038  
Name OJ991209\_04.0113.C12.o1.gs Method GENSCAN  
Start 1015 End 3038  
GI none Score .93  
Exons 1015..1156, 2338..3038

Seq. No. 37595 Seq. ID OJ991209\_04.0113.C12  
Gene No. 77183 Strand -  
Start 1015 End 3038  
Name OJ991209\_04.0113.C12.o1.np Method AAT/NAP  
Start 2338 End 2960  
GI 4826399 Score 173  
Exons 2338..2960  
GI Descrip. (AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]

Seq. No.	37595	Seq. ID	OJ991209_04.0113.C12
Gene No.	77184	Strand	-
Start	4864	End	5763
Name	OJ991209_04.0113.C12.o1.tm	Method	TBLASTX:Maize
Start	4816	End	5437
GI	none	Score	63
Exons	4816..4911, 4900..5115, 4902..5117, 5131..5316, 5375..5437		

Seq. No.	37595	Seq. ID	OJ991209_04.0113.C12
Gene No.	77184	Strand	-
Start	4864	End	5763
Name	OJ991209_04.0113.C12.o2.gs	Method	GENSCAN
Start	4864	End	5763
GI	none	Score	.5
Exons	4864..5111, 5697..5763		

Seq. No.	37595	Seq. ID	OJ991209_04.0113.C12
Gene No.	77184	Strand	-
Start	4864	End	5763
Name	OJ991209_04.0113.C12.o1.tw	Method	TBLASTX:Wheat
Start	4951	End	5115
GI	none	Score	181
Exons	4951..5115		

Seq. No.	37596	Seq. ID	OJ991209_04.0113.C13
Gene No.	77185	Strand	-
Start	1	End	930
Name	OJ991209_04.0113.C13.o1.gp	Method	AAT/GAP
Start	1	End	930
GI	2310235	Score	299
Exons	1..47, 338..477, 893..930		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	37596	Seq. ID	OJ991209_04.0113.C13
Gene No.	77185	Strand	-
Start	1	End	930
Name	OJ991209_04.0113.C13.o1.gs	Method	GENSCAN
Start	18	End	477
GI	none	Score	.91
Exons	18..477		

Seq. No.	37596	Seq. ID	OJ991209_04.0113.C13
Gene No.	77185	Strand	-
Start	1	End	930
Name	OJ991209_04.0113.C13.o1.np	Method	AAT/NAP
Start	148	End	477
GI	5852182	Score	420
Exons	148..477		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	37597	Seq. ID	OJ991209_05.0118.C1
Gene No.	77186	Strand	+
Start	2562	End	4153
Name	OJ991209_05.0118.C1.o1.np	Method	AAT/NAP
Start	2562	End	4153

GI 6907088 Score 433  
 Exons 2562..2698, 2874..3103, 3744..4153  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 37597 Seq. ID OJ991209\_05.0118.C1  
 Gene No. 77187 Strand +  
 Start 4138 End 5386  
 Name OJ991209\_05.0118.C1.o2.np Method AAT/NAP  
 Start 4138 End 5386  
 GI 5734635 Score 180  
 Exons 4138..4234, 4286..4576, 4704..5386  
 GI Descrip. (AP000391) hypothetical protein [Oryza sativa]

Seq. No. 37597 Seq. ID OJ991209\_05.0118.C1  
 Gene No. 77188 Strand -  
 Start 152 End 240  
 Name OJ991209\_05.0118.C1.o1.gs Method GENSCAN  
 Start 152 End 240  
 GI none Score 1  
 Exons 152..240

Seq. No. 37598 Seq. ID OJ991209\_05.0118.C2  
 Gene No. 77189 Strand +  
 Start 85 End 1931  
 Name OJ991209\_05.0118.C2.o1.gs Method GENSCAN  
 Start 85 End 1931  
 GI none Score .67  
 Exons 85..261, 1860..1931

Seq. No. 37598 Seq. ID OJ991209\_05.0118.C2  
 Gene No. 77190 Strand +  
 Start 10111 End 15673  
 Name OJ991209\_05.0118.C2.o3.np Method AAT/NAP  
 Start 10111 End 15673  
 GI 6523547 Score 139  
 Exons 10111..10248, 11404..11709, 11747..11968, 13145..13181, 15604..15673  
 GI Descrip. (AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]

Seq. No. 37598 Seq. ID OJ991209\_05.0118.C2  
 Gene No. 77191 Strand -  
 Start 2477 End 3055  
 Name OJ991209\_05.0118.C2.o1.np Method AAT/NAP  
 Start 2477 End 3055  
 GI 4104058 Score 354  
 Exons 2477..2622, 2659..3055  
 GI Descrip. (AF031195) blue copper-binding protein homolog [Triticum aestivum]

Seq. No. 37598 Seq. ID OJ991209\_05.0118.C2  
 Gene No. 77192 Strand -  
 Start 3774 End 4130  
 Name OJ991209\_05.0118.C2.o3.gs Method GENSCAN  
 Start 3774 End 4130  
 GI none Score .68  
 Exons 3774..4130



Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77193	Strand	-
Start	6245	End	6817
Name	OJ991209_05.0118.C2.o4.gs	Method	GENSCAN
Start	6245	End	6811
GI	none	Score	.95
Exons	6245..6811		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77193	Strand	-
Start	6245	End	6817
Name	OJ991209_05.0118.C2.o2.np	Method	AAT/NAP
Start	6251	End	6817
GI	4104058	Score	343
Exons	6251..6376, 6410..6817		
GI Descrip.	(AF031195) blue copper-binding protein homolog [Triticum aestivum]		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77194	Strand	-
Start	10137	End	10814
Name	OJ991209_05.0118.C2.o5.gs	Method	GENSCAN
Start	10137	End	10814
GI	none	Score	.87
Exons	10137..10537, 10652..10814		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77195	Strand	-
Start	11569	End	15673
Name	OJ991209_05.0118.C2.o1.tm	Method	TBLASTX:Maize
Start	9	End	10745
GI	none	Score	261
Exons	9..83, 2682..2954, 2684..2950, 2832..2957, 6447..6716, 6449..6739, 6598..6741, 6619..6738, 10335..10436, 10339..10539, 10341..10538, 10656..10745		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77195	Strand	-
Start	11569	End	15673
Name	OJ991209_05.0118.C2.o1.tw	Method	TBLASTX:Wheat
Start	9	End	10745
GI	none	Score	225
Exons	9..83, 2682..2954, 2684..2950, 6447..6713, 6449..6739, 10339..10539, 10341..10538, 10653..10745		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77195	Strand	-
Start	11569	End	15673
Name	OJ991209_05.0118.C2.o1.tc	Method	TBLASTX:Cress
Start	2682	End	10538
GI	none	Score	116
Exons	2682..2906, 2684..2947, 6422..6712, 6423..6671, 10339..10512, 10341..10538		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77195	Strand	-

Start	11569	End	15673
Name	OJ991209_05.0118.C2.o1.ts	Method	TBLASTX:Soybean
Start	2684	End	10700
GI	none	Score	119
Exons	2684..2929, 2685..2930, 6398..6694, 6399..6695, 10341..10538, 10342..10518, 10659..10700		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77195	Strand	-
Start	11569	End	15673
Name	OJ991209_05.0118.C2.o4.np	Method	AAT/NAP
Start	11389	End	15673
GI	2618693	Score	119
Exons	11389..11416, 13732..14140, 15617..15673		
GI Descrip.	(AC002510) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	37598	Seq. ID	OJ991209_05.0118.C2
Gene No.	77195	Strand	-
Start	11569	End	15673
Name	OJ991209_05.0118.C2.o6.gs	Method	GENSCAN
Start	11569	End	12298
GI	none	Score	59
Exons	11569..12075, 12112..12298		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77196	Strand	+
Start	249	End	7284
Name	OJ991209_05.0118.C3.o1.np	Method	AAT/NAP
Start	249	End	4844
GI	4680203	Score	1464
Exons	249..1825, 1868..1960, 2114..2343, 2620..2674, 4791..4844		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77196	Strand	+
Start	249	End	7284
Name	OJ991209_05.0118.C3.o1.gp	Method	AAT/GAP
Start	2216	End	2677
GI	5002953	Score	315
Exons	2216..2346, 2605..2677		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77196	Strand	+
Start	249	End	7284
Name	OJ991209_05.0118.C3.o2.gs	Method	GENSCAN
Start	3207	End	7284
GI	none	Score	.88
Exons	3207..3336, 3425..4158, 4237..5612, 5695..5865, 5945..6203, 6642..6680, 7219..7284		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77196	Strand	+
Start	249	End	7284
Name	OJ991209_05.0118.C3.o2.gp	Method	AAT/GAP

Start	6021	End	6541
GI	LIB3431-001-P1-N1-B5	Score	766
Exons	6021..6203, 6309..6541		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77197	Strand	+
Start	15973	End	21159
Name	OJ991209_05.0118.C3.o5.np	Method	AAT/NAP
Start	15973	End	21159
GI	5777623	Score	182
Exons	15973..16152, 18027..18146, 18509..19177, 21072..21159		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77197	Strand	+
Start	15973	End	21159
Name	OJ991209_05.0118.C3.o5.gp	Method	AAT/GAP
Start	20587	End	21013
GI	4878407	Score	676
Exons	20587..21013		
GI Descrip.	6069643/dbj AP000616.1 AP000616.1.0e-152. Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77198	Strand	-
Start	7823	End	9009
Name	OJ991209_05.0118.C3.o2.np	Method	AAT/NAP
Start	7823	End	8780
GI	4104058	Score	282
Exons	7823..8174, 8612..8780		
GI Descrip.	(AF031195) blue copper-binding protein homolog [Triticum aestivum]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77198	Strand	-
Start	7823	End	9009
Name	OJ991209_05.0118.C3.o3.gp	Method	AAT/GAP
Start	8059	End	9009
GI	17087_1.R1084	Score	948
Exons	8059..8174, 8612..9009		
GI Descrip.	'4104058 1.0e-11 (AF031195) blue copper-binding protein homolog [Triticum aestivum]'		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77199	Strand	-
Start	9422	End	18139
Name	OJ991209_05.0118.C3.o4.gs	Method	GENSCAN
Start	9422	End	14105
GI	none	Score	.67
Exons	9422..9529, 9535..9763, 9880..9912, 12954..13014, 13428..13509, 13674..14105		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77199	Strand	-
Start	9422	End	18139

Name	OJ991209_05.0118.C3.o4.gp	Method	AAT/GAP
Start	13465	End	14003
GI	LIB3432-005-P1-K1-H4	Score	803
Exons	13465..13577, 13674..14003		
GI Descrip.	'2244882/emb CAB10303.1  3.0e-16 (Z97338) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77199	Strand	-
Start	9422	End	18139
Name	OJ991209_05.0118.C3.o3.np	Method	AAT/NAP
Start	13473	End	18004
GI	2244882	Score	810
Exons	13473..14207, 15532..16170, 17957..18004		
GI Descrip.	(Z97338) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77199	Strand	-
Start	9422	End	18139
Name	OJ991209_05.0118.C3.o5.gs	Method	GENSCAN
Start	14672	End	16371
GI	none	Score	85
Exons	14672..14757, 15532..15622, 15679..16371		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77199	Strand	-
Start	9422	End	18139
Name	OJ991209_05.0118.C3.o6.gs	Method	GENSCAN
Start	17873	End	18139
GI	none	Score	.72
Exons	17873..18139		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77200	Strand	-
Start	18384	End	22738
Name	OJ991209_05.0118.C3.o7.gs	Method	GENSCAN
Start	18384	End	22146
GI	none	Score	.58
Exons	18384..18480, 18595..18706, 18901..19138, 19992..20195, 20335..20558, 20716..20877, 21204..21359, 21507..21684, 22024..22146		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77200	Strand	-
Start	18384	End	22738
Name	OJ991209_05.0118.C3.o6.np	Method	AAT/NAP
Start	19085	End	20564
GI	6907088	Score	204
Exons	19085..19483, 19977..20199, 20430..20564		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77200	Strand	-
Start	18384	End	22738
Name	OJ991209_05.0118.C3.o7.np	Method	AAT/NAP
Start	19794	End	22738
GI	4680186	Score	190

Exons 19794..19829, 20431..20571, 21193..21366, 22714..22738  
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 37599 Seq. ID OJ991209\_05.0118.C3  
Gene No. 77200 Strand -  
Start 18384 End 22738  
Name OJ991209\_05.0118.C3.o6.gp Method AAT/GAP  
Start 21124 End 21193  
GI LIB3477-003-P1-K1-E9 Score 93  
Exons 21124..21193  
GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
S 1 PRECURSOR (ORY S I)>gi\_1173557 (U31771) Ory s 1 [Oryza  
sativa]'

Seq. No. 37599 Seq. ID OJ991209\_05.0118.C3  
Gene No. 77201 Strand -  
Start 24268 End 28866  
Name OJ991209\_05.0118.C3.o8.gs Method GENSCAN  
Start 24268 End 28866  
GI none Score .84  
Exons 24268..24467, 25136..25232, 25413..25472, 25905..25976,  
26075..26154, 26231..26306, 26552..26644, 27220..27342,  
27547..27612, 28320..28605, 28826..28866

Seq. No. 37599 Seq. ID OJ991209\_05.0118.C3  
Gene No. 77201 Strand -  
Start 24268 End 28866  
Name OJ991209\_05.0118.C3.o8.np Method AAT/NAP  
Start 24410 End 28496  
GI 4567095 Score 980  
Exons 24410..24467, 24644..24703, 24848..24911, 25136..25232,  
25413..25472, 25905..25976, 26075..26154, 26231..26306,  
26552..26644, 26724..26804, 27220..27342, 27547..27612,  
28320..28496  
GI Descrip. (AF129516) fertilization-independent endosperm protein  
[Arabidopsis thaliana]

Seq. No. 37599 Seq. ID OJ991209\_05.0118.C3  
Gene No. 77202 Strand -  
Start 31561 End 41537  
Name OJ991209\_05.0118.C3.o7.gp Method AAT/GAP  
Start 31219 End 33037  
GI 2837\_1.R1084 Score 1355  
Exons 31219..31634, 31720..31788, 32007..32071, 32594..32656,  
32800..32862, 32956..33037  
GI Descrip. '4001805 5.0e-18 (AF041476) BAF53a [Mus musculus]'

Seq. No. 37599 Seq. ID OJ991209\_05.0118.C3  
Gene No. 77202 Strand -  
Start 31561 End 41537  
Name OJ991209\_05.0118.C3.o9.gs Method GENSCAN  
Start 31561 End 40028  
GI none Score .91  
Exons 31561..31666, 32007..32071, 32800..32862, 32956..33015,  
33224..33290, 34128..34179, 34502..34562, 34652..34705,  
35732..35809, 36076..36130, 36922..36971, 37042..37102,  
37481..37561, 38151..38224, 38311..38484, 39830..39921,

40016..40028

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77202	Strand	-
Start	31561	End	41537
Name	OJ991209_05.0118.C3.o9.np	Method	AAT/NAP
Start	31592	End	38427
GI	6714302	Score	920
Exons	31592..31634, 31720..31788, 32007..32071, 32594..32656, 32800..32862, 32956..33015, 33224..33290, 34128..34179, 34502..34562, 34652..34705, 35598..35651, 35732..35825, 36015..36130, 36922..37169, 37464..37561, 38151..38224, 38311..38427		
GI Descrip.	(AC013354) F15H18.8 [Arabidopsis thaliana]		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77202	Strand	-
Start	31561	End	41537
Name	OJ991209_05.0118.C3.o10.np	Method	AAT/NAP
Start	36838	End	41537
GI	1070474	Score	134
Exons	36838..36862, 37464..37561, 38151..38224, 38311..38396, 39817..39921, 39957..40207, 41470..41537		

GI Descrip. protein-tyrosine kinase (EC 2.7.1.112) fgr - feline sarcoma virus (strain Gardner-Rasheed) gi|61543|emb|CAA25063| (X00255) P70 gag gene [Feline sarcoma virus]

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77202	Strand	-
Start	31561	End	41537
Name	OJ991209_05.0118.C3.o8.gp	Method	AAT/GAP
Start	37061	End	40155
GI	7900_1.R1084	Score	1018
Exons	37061..37102, 37481..37561, 38151..38224, 38311..38484, 39830..39921, 40016..40155		

GI Descrip. '4757718/ref|NP\_004292.1|pACTL6| 4.0e-24 actin-like 6  
>gi\_4001803 (AF041474) BAF53a [Homo sapiens]  
>gi\_4218064\_dbj\_BAA74577\_ (AB015907) actin-related protein [Homo sapiens]'

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o3.tw	Method	TBLASTX:Wheat
Start	605	End	1156
GI	none	Score	212
Exons	605..1003, 844..1005, 1051..1146, 1052..1156		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o2.ts	Method	TBLASTX:Soybean
Start	884	End	1303
GI	none	Score	123
Exons	884..1003, 886..1005, 1054..1299, 1055..1303		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
----------	-------	---------	---------------------

Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o1.tc	Method	TBLASTX:Cress
Start	1051	End	1381
GI	none	Score	289
Exons	1051..1188, 1052..1381, 1225..1284, 1306..1380		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o2.tw	Method	TBLASTX:Wheat
Start	1177	End	1635
GI	none	Score	120
Exons	1177..1212, 1223..1327, 1234..1320, 1319..1429, 1328..1444, 1332..1430, 1336..1506, 1447..1635, 1475..1630		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o1.tm	Method	TBLASTX:Maize
Start	1226	End	1669
GI	none	Score	229
Exons	1226..1471, 1276..1467, 1475..1669		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o4.ts	Method	TBLASTX:Soybean
Start	1504	End	1738
GI	none	Score	244
Exons	1504..1659, 1505..1738		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o5.tw	Method	TBLASTX:Wheat
Start	1877	End	2232
GI	none	Score	183
Exons	1877..2107, 1906..2106, 2143..2232, 2144..2221		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o6.tm	Method	TBLASTX:Maize
Start	1883	End	2098
GI	none	Score	166
Exons	1883..2029, 1912..2019, 2036..2098		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o1.tw	Method	TBLASTX:Wheat
Start	2251	End	2675
GI	none	Score	388
Exons	2251..2673, 2274..2675		
Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3

Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o4.tm	Method	TBLASTX:Maize
Start	2271	End	2586
GI	none	Score	270
Exons	2271..2546, 2272..2586		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o2.tm	Method	TBLASTX:Maize
Start	7981	End	8711
GI	none	Score	274
Exons	7981..8172, 7988..8185, 8606..8683, 8618..8683, 8619..8711		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o4.tw	Method	TBLASTX:Wheat
Start	7981	End	8705
GI	none	Score	150
Exons	7981..8187, 7994..8188, 8594..8677, 8619..8705		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o1.ts	Method	TBLASTX:Soybean
Start	13983	End	22252
GI	5666695	Score	106
Exons	13983..14210, 13984..14196, 15529..15849, 15539..15625, 15725..15898, 21983..22147, 22145..22252		
GI Descrip.	-		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o2.tc	Method	TBLASTX:Cress
Start	15583	End	15981
GI	none	Score	87
Exons	15583..15684, 15667..15858, 15883..15981		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o3.ts	Method	TBLASTX:Soybean
Start	25906	End	26807
GI	none	Score	61
Exons	25906..25956, 25920..25988, 26070..26156, 26072..26155, 26232..26306, 26233..26307, 26552..26644, 26722..26805, 26724..26807		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o5.tm	Method	TBLASTX:Maize
Start	25906	End	26781
GI	none	Score	54



Exons 25906..25974, 25923..25985, 26066..26155, 26073..26156,  
26077..26157, 26078..26158, 26224..26304, 26225..26320,  
26232..26306, 26551..26646, 26552..26647, 26552..26644,  
26719..26781, 26722..26778

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o5.ts	Method	TBLASTX:Soybean
Start	27547	End	28485
GI	none	Score	93
Exons	27547..27615, 28317..28484, 28326..28481, 28327..28485, 28363..28485		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o3.tm	Method	TBLASTX:Maize
Start	31571	End	40062
GI	none	Score	69
Exons	31571..31645, 31581..31634, 31701..31790, 31701..31790, 31708..31806, 31717..31809, 32007..32072, 32009..32077, 32009..32077, 32794..32862, 32798..32863, 32822..32866, 32940..33011, 32953..33009, 32954..33010, 34117..34179, 34118..34180, 34127..34180, 34128..34184, 34485..34562, 34492..34572, 34503..34562, 34648..34704, 34652..34708, 34652..34711, 35598..35687, 35599..35652, 35727..35810, 35729..35824, 35732..35812, 35740..35814, 36064..36132, 36065..36133, 36909..36971, 36922..36972, 36922..36969, 36924..36971, 37031..37102, 37034..37102, 37039..37104, 37474..37563, 37475..37567, 37481..37573, 37482..37580, 37482..37574, 38150..38224, 38151..38225, 38152..38226, 38153..38227, 38197..38226, 38302..38442, 38308..38484, 38310..38486, 39827..39934, 39828..39923, 40015..40062, 40018..40050		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o9.gp	Method	AAT/GAP
Start	41480	End	42704
GI	14513.1.R1084	Score	1278
Exons	41480..41869, 42046..42105, 42208..42271, 42537..42704		
GI Descrip.	'4567095/gb AAD23584.1  8.0e-33 (AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]'		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-
Start	41800	End	42704
Name	OJ991209_05.0118.C3.o10.gs	Method	GENSCAN
Start	41800	End	42633
GI	none	Score	.91
Exons	41800..41869, 42208..42271, 42537..42633		

Seq. No.	37599	Seq. ID	OJ991209_05.0118.C3
Gene No.	77203	Strand	-

Start	41800	End	42704
Name	OJ991209_05.0118.C3.o11.np		Method
Start	41812	End	42704
GI	4567095	Score	231
Exons	41812..41869, 42046..42105, 42208..42271, 42537..42704		
GI Descrip.	(AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77204	Strand	+
Start	4307	End	5017
Name	OJ991209_05.0118.C4.o2.gs	Method	GENSCAN
Start	4307	End	4968
GI	none	Score	.7
Exons	4307..4397, 4843..4968		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77204	Strand	+
Start	4307	End	5017
Name	OJ991209_05.0118.C4.o2.np	Method	AAT/NAP
Start	4733	End	5017
GI	5852180	Score	248
Exons	4733..5017		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77205	Strand	-
Start	1	End	2742
Name	OJ991209_05.0118.C4.o1.gp	Method	AAT/GAP
Start	1	End	170
GI	LIB3432-037-P1-K1-C7	Score	129
Exons	1..30, 78..170		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77205	Strand	-
Start	1	End	2742
Name	OJ991209_05.0118.C4.o1.np	Method	AAT/NAP
Start	1	End	2730
GI	4567095	Score	740
Exons	1..149, 247..326, 410..485, 701..793, 873..953, 1631..1753, 1917..1982, 2554..2730		
GI Descrip.	(AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77205	Strand	-
Start	1	End	2742
Name	OJ991209_05.0118.C4.o1.gs	Method	GENSCAN
Start	78	End	2742
GI	none	Score	.79
Exons	78..149, 701..793, 1631..1753, 1917..1982, 2554..2742		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77205	Strand	-
Start	1	End	2742

Name	OJ991209_05.0118.C4.o2.gp	Method	AAT/GAP
Start	708	End	2601
GI	2310633	Score	714
Exons	708..793, 873..953, 1631..1753, 1917..1982, 2554..2601		
GI Descrip.	4567095/gb AAD23584.1  1.0e-41 (AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77206	Strand	-
Start	2696	End	4503
Name	OJ991209_05.0118.C4.o1.ts	Method	TBLASTX:Soybean
Start	70	End	956
GI	none	Score	71
Exons	70..150, 78..164, 238..324, 242..334, 244..327, 248..334, 406..477, 410..478, 411..485, 411..503, 412..495, 699..794, 701..793, 871..954, 873..956, 876..956		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77206	Strand	-
Start	2696	End	4503
Name	OJ991209_05.0118.C4.o1.tm	Method	TBLASTX:Maize
Start	79	End	930
GI	none	Score	76
Exons	79..156, 96..155, 244..327, 245..334, 400..483, 411..503, 412..486, 699..794, 700..795, 701..796, 701..793, 702..794, 871..930, 871..930		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77206	Strand	-
Start	2696	End	4503
Name	OJ991209_05.0118.C4.o2.ts	Method	TBLASTX:Soybean
Start	1917	End	2725
GI	none	Score	74
Exons	1917..1985, 2545..2724, 2549..2641, 2684..2725		

Seq. No.	37600	Seq. ID	OJ991209_05.0118.C4
Gene No.	77206	Strand	-
Start	2696	End	4503
Name	OJ991209_05.0118.C4.o3.gp	Method	AAT/GAP
Start	2696	End	4503
GI	2431246	Score	592
Exons	2696..2780, 4249..4503		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77207	Strand	+
Start	1	End	4234
Name	OJ991209_05.0118.C5.o1.np	Method	AAT/NAP
Start	1	End	3633
GI	5852180	Score	694
Exons	1..562, 3464..3633		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77207	Strand	+

Start	1	End	4234
Name	OJ991209_05.0118.C5.o1.gs	Method	GENSCAN
Start	42	End	2774
GI	none	Score	.52
Exons	42..411, 497..598, 2332..2537, 2730..2774		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77207	Strand	+
Start	1	End	4234
Name	OJ991209_05.0118.C5.o2.np	Method	AAT/NAP
Start	3518	End	4234
GI	5262222	Score	149
Exons	3518..4234		
GI Descrip.	(AL080254) reticuline oxidase-like protein [Arabidopsis thaliana]		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77208	Strand	+
Start	12110	End	13577
Name	OJ991209_05.0118.C5.o3.gp	Method	AAT/GAP
Start	12021	End	13577
GI	887_1.R1084	Score	2304
Exons	12021..12480, 12853..13577		
GI Descrip.	'3643271 1.0e-126 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]'		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77208	Strand	+
Start	12110	End	13577
Name	OJ991209_05.0118.C5.o4.np	Method	AAT/NAP
Start	12110	End	13303
GI	3643271	Score	1413
Exons	12110..12480, 12853..13303		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi 3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi 4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77208	Strand	+
Start	12110	End	13577
Name	OJ991209_05.0118.C5.o5.gs	Method	GENSCAN
Start	12110	End	13306
GI	none	Score	.92
Exons	12110..12480, 12853..13306		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77209	Strand	-
Start	3465	End	4255
Name	OJ991209_05.0118.C5.o2.gs	Method	GENSCAN
Start	3465	End	4255
GI	none	Score	.56
Exons	3465..3905, 3920..4134, 4213..4255		

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77210	Strand	-

Start 7343  
 Name OJ991209\_05.0118.C5.o3.gs  
 Start 7343  
 GI none  
 Exons 7343..7476, 8565..8730

End 8730  
 Method GENSCAN  
 End 8730  
 Score .65

Seq. No. 37601  
 Gene No. 77211  
 Start 9116  
 Name OJ991209\_05.0118.C5.o1.gp  
 Start 9116  
 GI 3761071  
 Exons 9116..9515  
 GI Descrip. 3643271 9.0e-30 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi\_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi\_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]

Seq. ID OJ991209\_05.0118.C5  
 Strand -  
 End 10406  
 Method AAT/GAP  
 End 9515  
 Score 696

Seq. No. 37601  
 Gene No. 77211  
 Start 9116  
 Name OJ991209\_05.0118.C5.o4.gs  
 Start 9276  
 GI none  
 Exons 9276..9732, 9855..10228

Seq. ID OJ991209\_05.0118.C5  
 Strand -  
 End 10406  
 Method GENSCAN  
 End 10228  
 Score .85

Seq. No. 37601  
 Gene No. 77211  
 Start 9116  
 Name OJ991209\_05.0118.C5.o3.np  
 Start 9279  
 GI 3643271  
 Exons 9279..9732, 9855..10228  
 GI Descrip. (AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]

Seq. ID OJ991209\_05.0118.C5  
 Strand -  
 End 10406  
 Method AAT/NAP  
 End 10228  
 Score 1190

Seq. No. 37601  
 Gene No. 77211  
 Start 9116  
 Name OJ991209\_05.0118.C5.o2.gp  
 Start 9849  
 GI 887\_3.R1084  
 Exons 9849..10406  
 GI Descrip. '4567095/gb|AAD23584.1| 1.0e-41 (AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]'

Seq. ID OJ991209\_05.0118.C5  
 Strand -  
 End 10406  
 Method AAT/GAP  
 End 10406  
 Score 999

Seq. No. 37601  
 Gene No. 77212  
 Start 14070  
 Name OJ991209\_05.0118.C5.o1.tm  
 Start 3837  
 GI none  
 Exons 3837..3929, 3837..3911, 3932..3994, 3943..3960, 3973..4101, 3974..4105, 4109..4150, 4139..4228, 4141..4236, 4159..4218

Seq. ID OJ991209\_05.0118.C5  
 Strand -  
 End 14188  
 Method TBLASTX:Maize  
 End 4236  
 Score 88

Seq. No.	37601	Seq. ID	OJ991209_05.0118.C5
Gene No.	77212	Strand	-
Start	14070	End	14188
Name	OJ991209_05.0118.C5.o6.gs	Method	GENSCAN
Start	14070	End	14188
GI	none	Score	.4
Exons	14070..14188		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77213	Strand	+
Start	459	End	1779
Name	OJ991209_05.0118.C6.o1.gp	Method	AAT/GAP
Start	459	End	717
GI	2310144	Score	514
Exons	459..717		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77213	Strand	+
Start	459	End	1779
Name	OJ991209_05.0118.C6.o1.gs	Method	GENSCAN
Start	546	End	1779
GI	none	Score	.89
Exons	546..934, 1326..1779		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77213	Strand	+
Start	459	End	1779
Name	OJ991209_05.0118.C6.o1.np	Method	AAT/NAP
Start	564	End	1776
GI	3643271	Score	973
Exons	564..934, 1326..1776		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi 3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi 4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77214	Strand	+
Start	5959	End	7270
Name	OJ991209_05.0118.C6.o2.gp	Method	AAT/GAP
Start	5862	End	6331
GI	887 4.R1084	Score	833
Exons	5862..6331		
GI Descrip.	'3643271' 7.0e-16 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]'		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77214	Strand	+
Start	5959	End	7270
Name	OJ991209_05.0118.C6.o2.np	Method	AAT/NAP
Start	5959	End	7267
GI	3643271	Score	1209
Exons	5959..6332, 6817..7267		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi 3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi 4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77214	Strand	+
Start	5959	End	7270
Name	OJ991209_05.0118.C6.o3.gs	Method	GENSCAN
Start	5959	End	7270
GI	none	Score	.71
Exons	5959..6332, 6817..7270		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77215	Strand	+
Start	9245	End	9801
Name	OJ991209_05.0118.C6.o3.np	Method	AAT/NAP
Start	9245	End	9801
GI	6907088	Score	501
Exons	9245..9382, 9558..9801		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77216	Strand	-
Start	2220	End	4719
Name	OJ991209_05.0118.C6.o2.gs	Method	GENSCAN
Start	2220	End	4719
GI	none	Score	.51
Exons	2220..2231, 2281..2444, 2477..2637, 2941..3103, 3803..4040, 4645..4719		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77217	Strand	-
Start	6811	End	7467
Name	OJ991209_05.0118.C6.o3.gp	Method	AAT/GAP
Start	6811	End	7467
GI	82543_1.R1084	Score	1249
Exons	6811..7467		
GI Descrip.	'3643271 1.0e-30 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]'		

Seq. No.	37602	Seq. ID	OJ991209_05.0118.C6
Gene No.	77218	Strand	-
Start	8692	End	9181
Name	OJ991209_05.0118.C6.o4.gs	Method	GENSCAN
Start	8692	End	9181
GI	none	Score	.93
Exons	8692..8765, 9172..9181		

Seq. No.	37603	Seq. ID	OJ991209_05.0118.C7
Gene No.	77219	Strand	+
Start	262	End	1440
Name	OJ991209_05.0118.C7.o1.np	Method	AAT/NAP
Start	262	End	1440
GI	6907086	Score	957
Exons	262..1031, 1092..1440		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37603	Seq. ID	OJ991209_05.0118.C7
----------	-------	---------	---------------------

Gene No. 77219  
 Start 262  
 Name OJ991209\_05.0118.C7.o1.gs  
 Start 510  
 GI none  
 Exons 510..855, 863..1014

Strand +  
 End 1440  
 Method GENSCAN  
 End 1014  
 Score .85

Seq. No. 37604  
 Gene No. 77220  
 Start 10028  
 Name OJ991209\_05.0118.C8.o3.gs  
 Start 10028  
 GI none  
 Exons 10028..10424, 10501..10581, 11081..13161, 16076..16249, 16267..16317

Seq. ID OJ991209\_05.0118.C8  
 Strand +  
 End 16317  
 Method GENSCAN  
 End 16317  
 Score .45

Seq. No. 37604  
 Gene No. 77221  
 Start 16698  
 Name OJ991209\_05.0118.C8.o2.np  
 Start 16698  
 GI 1174780  
 Exons 16698..16721, 17031..17265, 17964..18320, 18430..18872, 18954..19048, 19781..19953  
 GI Descrip. TRYPTOPHAN SYNTHASE BETA CHAIN 2 PRECURSOR (ORANGE PERICARP 2) gi|320135|pir||PQ0450 tryptophan synthase (EC 4.2.1.20) beta-2 chain precursor - maize (fragment) gi|168574 (M76685) tryptophan synthase beta-subunit [Zea mays]

Seq. ID OJ991209\_05.0118.C8  
 Strand +  
 End 20186  
 Method AAT/NAP  
 End 19953  
 Score 1915

Seq. No. 37604  
 Gene No. 77221  
 Start 16698  
 Name OJ991209\_05.0118.C8.o3.gp  
 Start 16942  
 GI 641\_1.R1084  
 Exons 16942..16966, 17030..17265, 17964..18320, 18430..18516  
 GI Descrip. '1174780/sp|P43284|TRP2 MAIZE 7.0e-97 TRYPTOPHAN SYNTHASE BETA CHAIN 2 PRECURSOR (ORANGE PERICARP 2) >gi\_320135\_pir\_PQ0450 tryptophan synthase (EC 4.2.1.20) beta-2 chain precursor - maize (fragment) >gi\_168574 (M76685) tryptophan synthase beta-subunit [Zea mays]'

Seq. ID OJ991209\_05.0118.C8  
 Strand +  
 End 20186  
 Method AAT/GAP  
 End 18516  
 Score 1277

Seq. No. 37604  
 Gene No. 77221  
 Start 16698  
 Name OJ991209\_05.0118.C8.o4.gs  
 Start 17062  
 GI none  
 Exons 17062..17265, 17964..18320, 18430..18872, 18954..19048, 19781..19956

Seq. ID OJ991209\_05.0118.C8  
 Strand +  
 End 20186  
 Method GENSCAN  
 End 19956  
 Score .89

Seq. No. 37604  
 Gene No. 77221  
 Start 16698  
 Name OJ991209\_05.0118.C8.o4.gp  
 Start 18816  
 GI 3079\_1.R1084

Seq. ID OJ991209\_05.0118.C8  
 Strand +  
 End 20186  
 Method AAT/GAP  
 End 20186  
 Score 1032



Exons 18816..18872, 18954..19048, 19781..20186  
 GI Descrip. '1174778/sp|P43283|TRP1\_MAIZE 2.0e-54 TRYPTOPHAN SYNTHASE BETA CHAIN 1 (ORANGE PERICARP 1) >gi\_320136\_pir\_PQ0449 tryptophan synthase (EC 4.2.1.20) beta-1 chain - maize (fragment) >gi\_168572 (M76684) tryptophan synthase beta-subunit [Zea mays]'

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77222	Strand	-
Start	1273	End	2583
Name	OJ991209_05.0118.C8.o1.np	Method	AAT/NAP
Start	1273	End	2514
GI	4115933	Score	199
Exons	1273..1326, 1571..1672, 2308..2514		
GI Descrip.	(AF118223) contains similarity to human RNA polymerase II complex component SRB7 (GB:U52960) [Arabidopsis thaliana]		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77222	Strand	-
Start	1273	End	2583
Name	OJ991209_05.0118.C8.o1.gp	Method	AAT/GAP
Start	2379	End	2583
GI	2312164	Score	368
Exons	2379..2583		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77223	Strand	-
Start	4938	End	5360
Name	OJ991209_05.0118.C8.o2.gp	Method	AAT/GAP
Start	4938	End	5360
GI	LIB3477-003-P1-K1-E9	Score	102
Exons	4938..5013, 5316..5360		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o6.tm	Method	TBLASTX:Maize
Start	7774	End	8200
GI	none	Score	78
Exons	7774..7845, 7792..7833, 7794..7847, 7840..7872, 7842..7874, 7865..7972, 7882..7974, 7889..7969, 7973..8035, 7984..8067, 7984..8034, 8144..8197, 8156..8200		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o4.tm	Method	TBLASTX:Maize
Start	11620	End	12064
GI	none	Score	373
Exons	11620..12063, 11620..12054, 11622..12062, 11855..12064		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o5.tm	Method	TBLASTX:Maize

Start	12972	End	13300
GI	none	Score	206
Exons	12972..13016, 12973..13161, 12976..13185, 12978..13163, 13260..13292, 13265..13300		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o1.tm	Method	TBLASTX:Maize
Start	17116	End	19956
GI	none	Score	212
Exons	17116..17265, 17145..17264, 17940..18323, 17945..18322, 17963..18334, 18394..18873, 18416..18874, 18425..18871, 18429..18881, 18429..18872, 18943..19047, 18947..19048, 18949..19050, 18954..19052, 19773..19946, 19780..19956, 19780..19953, 19781..19954		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o2.ts	Method	TBLASTX:Soybean
Start	17142	End	19964
GI	none	Score	192

Exons	17142..17192, 17143..17265, 17961..18323, 17962..18336, 17963..18322, 17989..18327, 18394..18873, 18394..18867, 18414..18872, 18428..18910, 18943..19047, 18947..19015, 18955..19050, 19776..19874, 19780..19959, 19809..19964		
-------	--	--	--

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o2.tc	Method	TBLASTX:Cress
Start	17143	End	19959
GI	none	Score	191
Exons	17143..17265, 17145..17264, 17940..18323, 17945..18322, 17958..18323, 18393..18695, 18394..18873, 18394..18912, 18429..18881, 18943..19047, 18954..19010, 19776..19871, 19780..19959		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o5.gs	Method	GENSCAN
Start	22180	End	26740
GI	none	Score	74
Exons	22180..22521, 22628..24085, 24208..24633, 25946..26107, 26702..26740		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o3.np	Method	AAT/NAP
Start	22201	End	24671
GI	2147484	Score	2552
Exons	22201..22539, 22628..24085, 24208..24671		
GI Descrip.	homeotic protein - Phalaenopsis sp gi 1173622 (U34743) homeobox protein [Phalaenopsis sp. 'hybrid SM9108']		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o1.tc	Method	TBLASTX:Cress
Start	22210	End	24399
GI	none	Score	141
Exons	22210..22344, 22211..22336, 22372..22545, 22373..22549, 22629..23006, 22643..23005, 23018..23227, 23022..23216, 23273..23623, 23289..23615, 23672..23752, 23798..24088, 23838..24020, 24005..24088, 24208..24378, 24209..24346, 24367..24399		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o4.ts	Method	TBLASTX:Soybean
Start	22210	End	22344
GI	none	Score	143
Exons	22210..22344, 22211..22336		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o2.tm	Method	TBLASTX:Maize
Start	22210	End	23488
GI	none	Score	85
Exons	22210..22344, 22223..22336, 22372..22533, 22373..22525, 22623..22883, 22643..22885, 22877..23011, 22881..22991, 22988..23227, 22989..23216, 23276..23488, 23289..23486		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o1.ts	Method	TBLASTX:Soybean
Start	22372	End	23572
GI	none	Score	174
Exons	22372..22545, 22638..23009, 22643..22990, 23031..23216, 23039..23227, 23282..23572, 23289..23570		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o3.tm	Method	TBLASTX:Maize
Start	23813	End	24285
GI	none	Score	123
Exons	23813..24088, 23853..24020, 23999..24088, 24208..24285, 24209..24256		

Seq. No.	37604	Seq. ID	OJ991209_05.0118.C8
Gene No.	77224	Strand	-
Start	22180	End	26740
Name	OJ991209_05.0118.C8.o3.ts	Method	TBLASTX:Soybean
Start	23813	End	24285
GI	none	Score	93
Exons	23813..24088, 23946..24020, 23999..24088, 24208..24285		

Seq. No.	37605	Seq. ID	OJ991209_05.0118.C9
Gene No.	77225	Strand	+
Start	631	End	4634
Name	OJ991209_05.0118.C9.ol.gs	Method	GENSCAN
Start	631	End	4634
GI	none	Score	.57
Exons	631..659, 1014..1154, 1246..1354, 4551..4634		

Seq. No.	37605	Seq. ID	OJ991209_05.0118.C9
Gene No.	77226	Strand	-
Start	140	End	318
Name	OJ991209_05.0118.C9.ol.gp	Method	AAT/GAP
Start	140	End	318
GI	15870_2.R1084	Score	269
Exons	140..318		
GI Descrip.	'287403/dbj D10838 RICSBE1 8.0e-69 Rice gene for starch branching enzyme'		

Seq. No.	37606	Seq. ID	OJ991209_05.0118.C10
Gene No.	77227	Strand	-
Start	1	End	1087
Name	OJ991209_05.0118.C10.ol.np	Method	AAT/NAP
Start	1	End	1041
GI	5817305	Score	87
Exons	1..20, 533..627, 932..1041		
GI Descrip.	(AF087820) auxin transport protein [Arabidopsis thaliana]		

Seq. No.	37606	Seq. ID	OJ991209_05.0118.C10
Gene No.	77227	Strand	-
Start	1	End	1087
Name	OJ991209_05.0118.C10.ol.gs	Method	GENSCAN
Start	140	End	1087
GI	none	Score	.81
Exons	140..565, 571..771, 932..1087		

Seq. No.	37607	Seq. ID	OJ991109_02.0118.C2
Gene No.	77228	Strand	-
Start	1	End	684
Name	OJ991109_02.0118.C2.ol.np	Method	AAT/NAP
Start	1	End	684
GI	4337192	Score	260
Exons	1..195, 316..438, 660..684		
GI Descrip.	(AC006403) unknown protein [Arabidopsis thaliana]		

Seq. No.	37607	Seq. ID	OJ991109_02.0118.C2
Gene No.	77228	Strand	-
Start	1	End	684
Name	OJ991109_02.0118.C2.ol.tm	Method	TBLASTX:Maize
Start	32	End	427
GI	none	Score	44
Exons	32..76, 32..55, 49..201, 60..197, 61..204, 62..205, 315..425, 316..423, 316..426, 317..427, 318..425		

Seq. No.	37607	Seq. ID	OJ991109_02.0118.C2
Gene No.	77228	Strand	-
Start	1	End	684
Name	OJ991109_02.0118.C2.ol.tc	Method	TBLASTX:Cress

Start	40	End	424
GI	none	Score	117
Exons	40..204, 62..196, 316..423, 316..423, 350..424		

Seq. No.	37607	Seq. ID	OJ991109_02.0118.C2
Gene No.	77228	Strand	-
Start	1	End	684
Name	OJ991109_02.0118.C2.o1.gs	Method	GENSCAN
Start	69	End	425
GI	none	Score	.99
Exons	69..195, 316..425		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77229	Strand	-
Start	1	End	1051
Name	OJ991109_02.0118.C3.o1.np	Method	AAT/NAP
Start	1	End	1051
GI	4337192	Score	196
Exons	1..122, 541..714, 941..1051		
GI Descrip.	(AC006403) unknown protein [Arabidopsis thaliana]		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77229	Strand	-
Start	1	End	1051
Name	OJ991109_02.0118.C3.o1.gs	Method	GENSCAN
Start	541	End	816
GI	none	Score	.97
Exons	541..816		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77230	Strand	-
Start	1959	End	3380
Name	OJ991109_02.0118.C3.o3.tm	Method	TBLASTX:Maize
Start	1	End	654
GI	none	Score	155
Exons	1..129, 1..123, 3..125, 6..140, 529..654, 530..583		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77230	Strand	-
Start	1959	End	3380
Name	OJ991109_02.0118.C3.o2.gs	Method	GENSCAN
Start	1959	End	3367
GI	none	Score	.71
Exons	1959..1969, 2205..2259, 3121..3222, 3311..3367		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77230	Strand	-
Start	1959	End	3380
Name	OJ991109_02.0118.C3.o1.gp	Method	AAT/GAP
Start	2144	End	3369
GI	none	Score	780
Exons	2144..2259, 2354..2455, 2929..2994, 3121..3222, 3311..3369		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77230	Strand	-
Start	1959	End	3380
Name	OJ991109_02.0118.C3.o1.tm	Method	TBLASTX:Maize

Start	2161	End	2455
GI	none	Score	147
Exons	2161..2259, 2165..2260, 2325..2450, 2343..2453, 2354..2455		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77230	Strand	-
Start	1959	End	3380
Name	OJ991109_02.0118.C3.o1.tw	Method	TBLASTX:Wheat
Start	2355	End	3380
GI	none	Score	144
Exons	2355..2456, 2355..2456, 2356..2457, 2357..2458, 2921..2995, 2926..3006, 2927..3013, 2928..3008, 3120..3236, 3120..3224, 3121..3228, 3311..3370, 3312..3380		

Seq. No.	37608	Seq. ID	OJ991109_02.0118.C3
Gene No.	77230	Strand	-
Start	1959	End	3380
Name	OJ991109_02.0118.C3.o2.tm	Method	TBLASTX:Maize
Start	2912	End	3377
GI	none	Score	95
Exons	2912..2995, 2927..2995, 2928..3005, 3119..3220, 3120..3224, 3121..3228, 3311..3370, 3312..3377		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77231	Strand	+
Start	908	End	4300
Name	OJ991109_02.0118.C4.o1.np	Method	AAT/NAP
Start	908	End	4300
GI	6561982	Score	1344
Exons	908..936, 2232..4300		
GI Descrip.	(AL133363) putative protein [Arabidopsis thaliana]		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77232	Strand	+
Start	6571	End	10747
Name	OJ991109_02.0118.C4.o2.np	Method	AAT/NAP
Start	6571	End	10747
GI	3894393	Score	586
Exons	6571..7696, 7853..8038, 8084..8426, 10724..10747		
GI Descrip.	(AF053998) Hcr2-5D [Lycopersicon esculentum]		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77233	Strand	+
Start	15504	End	24483
Name	OJ991109_02.0118.C4.o4.gs	Method	GENSCAN
Start	15504	End	24483
GI	none	Score	.65
Exons	15504..15590, 15674..15767, 18844..18977, 19886..20850, 21579..21657, 21761..21856, 22405..22642, 23697..23894, 23987..24125, 24231..24261, 24316..24483		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77233	Strand	+
Start	15504	End	24483
Name	OJ991109_02.0118.C4.o2.gp	Method	AAT/GAP
Start	22604	End	22921
GI	none	Score	570

Exons 22604..22921

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77233	Strand	+
Start	15504	End	24483
Name	OJ991109_02.0118.C4.o3.gp	Method	AAT/GAP
Start	23453	End	24170
GI	none	Score	1024
Exons	23453..23602, 23697..23894, 23987..24170		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77234	Strand	+
Start	26178	End	33375
Name	OJ991109_02.0118.C4.o5.gs	Method	GENSCAN
Start	26178	End	33375
GI	none	Score	.53
Exons	26178..26221, 29487..29596, 31418..31468, 31952..32191, 32854..32904, 33275..33375		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77235	Strand	+
Start	35809	End	35941
Name	OJ991109_02.0118.C4.o4.gp	Method	AAT/GAP
Start	35809	End	35941
GI	LIB3474-009-P1-K1-F11	Score	221
Exons	35809..35941		
GI Descrip.	'4455244/emb CAB36743.1  6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77236	Strand	+
Start	36211	End	39973
Name	OJ991109_02.0118.C4.o5.gp	Method	AAT/GAP
Start	36211	End	36671
GI	none	Score	876
Exons	36211..36671		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77236	Strand	+
Start	36211	End	39973
Name	OJ991109_02.0118.C4.o4.np	Method	AAT/NAP
Start	36363	End	39677
GI	4263791	Score	774
Exons	36363..36419, 36702..36823, 37329..37506, 38287..38684, 38741..39677		
GI Descrip.	(AC006068) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77236	Strand	+
Start	36211	End	39973
Name	OJ991109_02.0118.C4.o6.gp	Method	AAT/GAP
Start	39518	End	39973
GI	none	Score	861
Exons	39518..39973		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
----------	-------	---------	---------------------

Gene No.	77237	Strand	+
Start	42525	End	46399
Name	OJ991109_02.0118.C4.o7.gs	Method	GENSCAN
Start	42525	End	46399
GI	none	Score	.6
Exons	42525..42653, 43283..43399, 44066..44190, 44457..44522, 45898..45994, 46313..46399		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77238	Strand	-
Start	11	End	118
Name	OJ991109_02.0118.C4.o1.gs	Method	GENSCAN
Start	11	End	118
GI	none	Score	.98
Exons	11..118		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77239	Strand	-
Start	11082	End	13785
Name	OJ991109_02.0118.C4.o3.gs	Method	GENSCAN
Start	11082	End	13785
GI	none	Score	.51
Exons	11082..11177, 11538..11670, 12037..12123, 13029..13282, 13630..13785		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o2.tw	Method	TBLASTX:Wheat
Start	2612	End	3796
GI	none	Score	69
Exons	2612..2725, 2640..2720, 2642..2899, 2930..3031, 2947..3081, 2948..3082, 2963..3082, 3085..3312, 3107..3346, 3263..3649, 3553..3648, 3566..3796, 3599..3736		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o3.tm	Method	TBLASTX:Maize
Start	2627	End	4285
GI	none	Score	85
Exons	2627..2839, 2630..2737, 2687..2902, 2906..3097, 2924..3091, 2930..3091, 2947..3087, 3014..3073, 3110..3523, 3116..3520, 3185..3409, 3386..3754, 3469..3792, 3470..3796, 3551..3712, 3638..3796, 3824..3925, 3956..4285		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o4.ts	Method	TBLASTX:Soybean
Start	2669	End	3925
GI	none	Score	99
Exons	2669..2872, 3593..3925, 3640..3909		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653



Name	OJ991109_02.0118.C4.o2.tc	Method	TBLASTX:Cress
Start	3644	End	4225
GI	none	Score	116
Exons	3644..3850, 3827..3931, 3929..4225		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o5.ts	Method	TBLASTX:Soybean
Start	3944	End	4210
GI	none	Score	237
Exons	3944..4210, 4057..4209		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o2.ts	Method	TBLASTX:Soybean
Start	6937	End	38507
GI	none	Score	49
Exons	6937..6999, 7021..7311, 7021..7428, 7072..7497, 7093..7443, 7102..7359, 7117..7704, 7126..7695, 7198..7491, 7198..7572, 7234..7332, 7237..7647, 7330..7710, 7381..7695, 7567..7686, 7597..7704, 7735..7785, 7804..8016, 7807..8043, 7825..8070, 7834..8055, 7834..8016, 7861..8016, 7867..7986, 7897..8076, 8083..8424, 8167..8424, 8167..8427, 8170..8505, 8170..8358, 8170..8424, 8170..8424, 8185..8424, 8185..8424, 8275..8406, 8334..8483, 37041..37091, 37047..37454, 37119..37289, 37128..37385, 37143..37730, 37224..37598, 37233..37358, 37263..37673, 37356..37736, 37359..37517, 37407..37721, 37593..37712, 37623..37730, 37761..37811, 37830..38042, 37833..38069, 37851..38096, 37860..38081, 37860..38042, 37887..38042, 37893..38012, 37923..38102, 38109..38450, 38193..38450, 38193..38453, 38196..38507, 38196..38450, 38196..38450, 38196..38384, 38196..38450, 38211..38450, 38211..38450, 38291..38455, 38301..38432, 38360..38497		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o1.tc	Method	TBLASTX:Cress
Start	6949	End	39419
GI	none	Score	322
Exons	6949..7695, 6997..7518, 7015..7317, 7018..7425, 7030..7497, 7093..7644, 7102..7704, 7201..7377, 7246..7704, 7269..7505, 7287..7496, 7332..7664, 7332..7643, 7387..7695, 7462..7704, 7807..8043, 7807..8043, 7813..8043, 7825..8022, 7825..8016, 7825..8046, 7825..8055, 7834..8043, 7834..8055, 7846..7962, 7861..8055, 7978..8049, 8155..8436, 8164..8424, 8164..8424, 8167..8424, 8167..8421, 8167..8421, 8167..8427, 8170..8424, 8170..8424, 8170..8424, 8170..8427, 8172..8423, 8176..8355, 8176..8352, 8182..8289, 8184..8426, 8184..8423, 8196..8345, 8227..8424, 8233..8424, 8256..8360, 8356..8490, 8377..8529, 36981..37721, 37044..37463, 37044..37451, 37056..37523, 37119..37670, 37119..37736, 37128..37730, 37227..37403, 37323..37730, 37335..37721, 37343..37522, 37346..37531, 37358..37690, 37358..37669, 37833..38069, 37833..38069, 37839..38069, 37851..38048, 37851..38042, 37851..38072,		

37851..38081, 37860..38069, 37860..38081, 37872..37988,  
 37887..38081, 38004..38075, 38181..38462, 38190..38450,  
 38190..38450, 38193..38450, 38193..38447, 38193..38447,  
 38193..38453, 38196..38450, 38196..38450, 38196..38450,  
 38196..38453, 38198..38449, 38202..38381, 38202..38378,  
 38208..38315, 38210..38452, 38253..38450, 38259..38498,  
 38294..38377, 38294..38386, 38360..38452, 38382..38507,  
 38742..39068, 39093..39419, 39110..39418

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o2.tm	Method	TBLASTX:Maize
Start	7126	End	38456
GI	none	Score	286
Exons	7126..7419, 7142..7417, 7198..7497, 7209..7454, 7221..7445, 7422..7634, 7423..7620, 7567..7695, 7804..8055, 8164..8421, 8170..8373, 8233..8361, 8275..8430, 37152..37445, 37168..37284, 37224..37523, 37330..37443, 37334..37471, 37334..37480, 37448..37660, 37449..37646, 37593..37721, 37830..38081, 38190..38447, 38196..38399, 38259..38387, 38301..38456		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o3.tw	Method	TBLASTX:Wheat
Start	7309	End	38504
GI	none	Score	125
Exons	7309..7572, 7801..8016, 8125..8472, 8382..8462, 37335..37598, 37827..38042, 38151..38504, 38408..38476		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o1.gp	Method	AAT/GAP
Start	17758	End	17848
GI	LIB3477-003-P1-K1-E9	Score	109
Exons	17758..17848		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o6.tm	Method	TBLASTX:Maize
Start	20015	End	21187
GI	none	Score	164
Exons	20015..20344, 20510..20797, 20920..21162, 20945..21187		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o3.ts	Method	TBLASTX:Soybean
Start	20141	End	21178
GI	none	Score	94
Exons	20141..20332, 20618..20827, 20665..20850, 20923..21162,		

20930..21163, 20930..21178

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o5.tm	Method	TBLASTX:Maize
Start	21517	End	21866
GI	none	Score	192
Exons	21517..21657, 21524..21658, 21526..21660, 21758..21865, 21760..21858, 21777..21866		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o7.tm	Method	TBLASTX:Maize
Start	22780	End	24127
GI	none	Score	67
Exons	22780..22824, 22788..22850, 22882..23064, 22890..23063, 23059..23172, 23062..23160, 23156..23275, 23158..23280, 23170..23274, 23264..23383, 23266..23388, 23278..23382, 23374..23589, 23386..23520, 23783..23914, 24018..24122, 24019..24126, 24032..24127		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o4.tm	Method	TBLASTX:Maize
Start	38720	End	38990
GI	none	Score	410
Exons	38720..38983, 38721..38990		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o1.ts	Method	TBLASTX:Soybean
Start	38781	End	39503
GI	none	Score	222
Exons	38781..39068, 38835..39056, 39060..39503, 39104..39436		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o1.tw	Method	TBLASTX:Wheat
Start	39045	End	39485
GI	none	Score	56
Exons	39045..39095, 39045..39086, 39087..39422, 39167..39415, 39441..39485		

Seq. No.	37609	Seq. ID	OJ991109_02.0118.C4
Gene No.	77240	Strand	-
Start	17758	End	39653
Name	OJ991109_02.0118.C4.o1.tm	Method	TBLASTX:Maize
Start	39112	End	39653
GI	none	Score	335
Exons	39112..39621, 39114..39632, 39115..39627, 39116..39649, 39117..39653		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77241	Strand	+
Start	75	End	3631
Name	OJ991109_02.0118.C5.o1.gs	Method	GENSCAN
Start	75	End	3631
GI	none	Score	.61
Exons	75..131, 255..415, 479..600, 699..873, 977..1242, 3414..3631		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77242	Strand	+
Start	6033	End	11465
Name	OJ991109_02.0118.C5.o1.np	Method	AAT/NAP
Start	6033	End	11465
GI	4102600	Score	1742
Exons	6033..6078, 6495..6604, 6720..6818, 6945..7001, 7120..7275, 7378..7462, 8245..8335, 8421..8585, 8668..8790, 9107..9182, 9395..9551, 10152..11465		

GI Descrip. (AF013467) ARF6 [Arabidopsis thaliana]

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77242	Strand	+
Start	6033	End	11465
Name	OJ991109_02.0118.C5.o1.gp	Method	AAT/GAP
Start	6039	End	6290
GI	uC-osflm202112h06b1	Score	204
Exons	6039..6112, 6223..6290		
GI Descrip.	'1174745/sp P46225 TPIC_SECCE 8.0e-16 TRIOSEPHOSPHATE ISOMERASE, CHLOROPLAST PRECURSOR (TIM) >gi_1363523_pir_S53761 triose-phosphate isomerase (EC 5.3.1.1) precursor, chloroplast - rye >gi_609262_emb_CAA83533_ (Z32521) triosephosphate isomerase [Secale cereale] >gi_1095494_prf__2109226B triosephosphate isomerase [Secale cereale]'		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77242	Strand	+
Start	6033	End	11465
Name	OJ991109_02.0118.C5.o3.gs	Method	GENSCAN
Start	7153	End	11434
GI	none	Score	.87
Exons	7153..7275, 7378..7462, 8245..8335, 8502..8585, 8653..8790, 9107..9182, 9395..9542, 10152..11140, 11244..11434		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77242	Strand	+
Start	6033	End	11465
Name	OJ991109_02.0118.C5.o2.gp	Method	AAT/GAP
Start	9122	End	10393
GI	3761532	Score	790
Exons	9122..9182, 9395..9542, 10152..10393		
GI Descrip.	4104931/gb AAD02219.1  2.0e-37 (AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77242	Strand	+
Start	6033	End	11465
Name	OJ991109_02.0118.C5.o3.gp	Method	AAT/GAP
Start	10389	End	10895

GI 46523\_1.R1084 Score 1010  
 Exons 10389..10895  
 GI Descrip. '4104931/gb|AAD02219.1| 2.0e-37 (AF042196) auxin response factor  
 8 [Arabidopsis thaliana]'

Seq. No. 37610 Seq. ID OJ991109\_02.0118.C5  
 Gene No. 77242 Strand +  
 Start 6033 End 11465  
 Name OJ991109\_02.0118.C5.o4.gp Method AAT/GAP  
 Start 10896 End 11465  
 GI 36294\_1.R1084 Score 821  
 Exons 10896..11140, 11244..11465  
 GI Descrip. '4102600/gb|AAD01513.1| 4.0e-42 (AF013467) ARF6 [Arabidopsis  
 thaliana]'

Seq. No. 37610 Seq. ID OJ991109\_02.0118.C5  
 Gene No. 77243 Strand -  
 Start 4344 End 11439  
 Name OJ991109\_02.0118.C5.o2.gs Method GENSCAN  
 Start 4344 End 7025  
 GI none Score .5  
 Exons 4344..4495, 6072..6488, 6581..7025

Seq. No. 37610 Seq. ID OJ991109\_02.0118.C5  
 Gene No. 77243 Strand -  
 Start 4344 End 11439  
 Name OJ991109\_02.0118.C5.o2.tm Method TBLASTX:Maize  
 Start 6493 End 8309  
 GI none Score 191  
 Exons 6493..6606, 6494..6619, 6717..6818, 6719..6817, 6752..6820,  
 6793..6825, 6933..7001, 6941..7003, 7110..7277, 7120..7275,  
 7167..7277, 7377..7463, 7378..7464, 7378..7467, 8237..8308,  
 8244..8309

Seq. No. 37610 Seq. ID OJ991109\_02.0118.C5  
 Gene No. 77243 Strand -  
 Start 4344 End 11439  
 Name OJ991109\_02.0118.C5.o4.ts Method TBLASTX:Soybean  
 Start 6493 End 6619  
 GI none Score 199  
 Exons 6493..6606, 6494..6619

Seq. No. 37610 Seq. ID OJ991109\_02.0118.C5  
 Gene No. 77243 Strand -  
 Start 4344 End 11439  
 Name OJ991109\_02.0118.C5.o1.tc Method TBLASTX:Cress.  
 Start 6497 End 11437  
 GI none Score 181  
 Exons 6497..6607, 6499..6615, 6717..6818, 6719..6817, 6752..6820,  
 6772..6825, 6933..7001, 6941..7003, 7110..7277, 7120..7275,  
 7378..7464, 7383..7463, 8237..8332, 8244..8333, 8244..8336,  
 8364..8573, 8404..8586, 8407..8586, 8665..8793, 8666..8791,  
 8668..8793, 9104..9184, 9105..9185, 9361..9516, 9384..9488,  
 9392..9538, 9392..9502, 9394..9537, 9530..9589, 10151..10195,  
 10181..10291, 10340..10372, 11238..11432, 11243..11437,  
 11243..11389

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77243	Strand	-
Start	4344	End	11439
Name	OJ991109_02.0118.C5.o1.ts	Method	TBLASTX:Soybean
Start	6735	End	7464
GI	4306688	Score	131
Exons	6735..6818, 6737..6817, 6939..7001, 6941..7000, 7120..7275, 7122..7277, 7137..7286, 7374..7454, 7377..7463, 7378..7464		
GI Descrip.	-		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77243	Strand	-
Start	4344	End	11439
Name	OJ991109_02.0118.C5.o4.tm	Method	TBLASTX:Maize
Start	8401	End	9185
GI	none	Score	232
Exons	8401..8586, 8421..8585, 8666..8791, 8668..8784, 8683..8793, 8684..8788, 9105..9185, 9107..9184		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77243	Strand	-
Start	4344	End	11439
Name	OJ991109_02.0118.C5.o3.ts	Method	TBLASTX:Soybean
Start	8466	End	9541
GI	none	Score	148
Exons	8466..8582, 8467..8586, 8467..8586, 8665..8793, 8666..8791, 8667..8792, 8668..8793, 9104..9184, 9105..9185, 9387..9488, 9392..9541, 9392..9520, 9394..9537		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77243	Strand	-
Start	4344	End	11439
Name	OJ991109_02.0118.C5.o3.tm	Method	TBLASTX:Maize
Start	9418	End	10789
GI	none	Score	216
Exons	9418..9537, 9419..9541, 9422..9541, 9423..9545, 10147..10413, 10152..10754, 10567..10788, 10571..10789		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77243	Strand	-
Start	4344	End	11439
Name	OJ991109_02.0118.C5.o1.tm	Method	TBLASTX:Maize
Start	10820	End	11439
GI	none	Score	490
Exons	10820..11143, 10822..11142, 11225..11389, 11238..11432, 11241..11435, 11242..11436, 11242..11439, 11243..11437		

Seq. No.	37610	Seq. ID	OJ991109_02.0118.C5
Gene No.	77243	Strand	-
Start	4344	End	11439
Name	OJ991109_02.0118.C5.o2.ts	Method	TBLASTX:Soybean
Start	10958	End	11439
GI	none	Score	105
Exons	10958..11131, 11123..11143, 11238..11432, 11241..11432, 11242..11436, 11242..11439, 11243..11437		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
----------	-------	---------	---------------------

Gene No.	77244	Strand	+
Start	541	End	1765
Name	OJ991109_02.0118.C6.o1.gp	Method	AAT/GAP
Start	541	End	1364
GI	36294_1.R1084	Score	875
Exons	541..663, 991..1364		
GI Descrip.	'4102600/gb AAD01513.1  4.0e-42 (AF013467) ARF6 [Arabidopsis thaliana]'		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77244	Strand	+
Start	541	End	1765
Name	OJ991109_02.0118.C6.o1.np	Method	AAT/NAP
Start	541	End	653
GI	4104931	Score	69
Exons	541..653		
GI Descrip.	(AF042196) auxin response factor 8 [Arabidopsis thaliana]		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77244	Strand	+
Start	541	End	1765
Name	OJ991109_02.0118.C6.o1.gs	Method	GENSCAN
Start	649	End	1765
GI	none	Score	.74
Exons	649..663, 991..1153, 1686..1765		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77245	Strand	+
Start	3516	End	6702
Name	OJ991109_02.0118.C6.o2.gs	Method	GENSCAN
Start	3516	End	6702
GI	none	Score	.56
Exons	3516..3662, 4670..4780, 5005..6702		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77245	Strand	+
Start	3516	End	6702
Name	OJ991109_02.0118.C6.o2.tm	Method	TBLASTX:Maize
Start	3579	End	4780
GI	none	Score	138
Exons	3579..3662, 3585..3662, 4667..4780, 4669..4776		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77245	Strand	+
Start	3516	End	6702
Name	OJ991109_02.0118.C6.o1.ts	Method	TBLASTX:Soybean
Start	3582	End	5103
GI	none	Score	118
Exons	3582..3662, 4667..4780, 4669..4773, 5029..5103		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77245	Strand	+
Start	3516	End	6702
Name	OJ991109_02.0118.C6.o1.tc	Method	TBLASTX:Cress
Start	3594	End	5679
GI	none	Score	109
Exons	3594..3662, 4667..4780, 4669..4773, 5023..5160, 5574..5636,		

5578..5679

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77245	Strand	+
Start	3516	End	6702
Name	OJ991109_02.0118.C6.o1.tm	Method	TBLASTX:Maize
Start	5004	End	5697
GI	none	Score	120
Exons	5004..5237, 5007..5243, 5011..5244, 5460..5636, 5461..5697, 5468..5641, 5476..5646		

Seq. No.	37611	Seq. ID	OJ991109_02.0118.C6
Gene No.	77246	Strand	
Start	6631	End	6828
Name	OJ991109_02.0118.C6.o3.tm	Method	TBLASTX:Maize
Start	6631	End	6828
GI	none	Score	132
Exons	6631..6759, 6635..6763, 6635..6760, 6763..6828, 6775..6828		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77247	Strand	+
Start	1	End	94
Name	OJ991109_02.0118.C7.o1.gp	Method	AAT/GAP
Start	1	End	94
GI	none	Score	145
Exons	1..94		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77248	Strand	+
Start	1263	End	1417
Name	OJ991109_02.0118.C7.o1.gs	Method	GENSCAN
Start	1263	End	1417
GI	none	Score	.58
Exons	1263..1417		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77249	Strand	+
Start	1951	End	6480
Name	OJ991109_02.0118.C7.o1.np	Method	AAT/NAP
Start	1948	End	4636
GI	6728990	Score	1507
Exons	1948..2004, 2097..2213, 3073..3513, 3633..3995, 4451..4636		
GI-Descrip.	(AC018363) unknown protein [Arabidopsis thaliana]		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77249	Strand	+
Start	1951	End	6480
Name	OJ991109_02.0118.C7.o2.gs	Method	GENSCAN
Start	1951	End	6480
GI	none	Score	.9
Exons	1951..2004, 2097..2213, 3073..3513, 3633..3995, 4451..4627, 4871..5060, 5755..5819, 6337..6480		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77250	Strand	+
Start	9353	End	15036
Name	OJ991109_02.0118.C7.o2.np	Method	AAT/NAP



Start	9353	End	15036
GI	3777527	Score	2446
Exons	9353..10323, 10526..10774, 11171..11310, 11446..11583, 11755..11876, 11904..13195, 13280..15036		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o1.tm	Method	TBLASTX:Maize
Start	1883	End	4647
GI	none	Score	93
Exons	1883..2005, 1943..2005, 1944..2021, 1960..2037, 2091..2213, 2094..2213, 2094..2213, 2095..2235, 2096..2236, 2099..2188, 3070..3186, 3070..3480, 3070..3186, 3070..3405, 3072..3200, 3090..3440, 3165..3515, 3184..3513, 3357..3518, 3614..3667, 3614..3991, 3625..3996, 3632..3889, 3633..3995, 3633..3917, 3633..4004, 3633..3884, 3716..3997, 3882..3995, 4445..4633, 4445..4642, 4450..4647, 4450..4641, 4462..4644		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o3.tw	Method	TBLASTX:Wheat
Start	1937	End	3902
GI	none	Score	88
Exons	1937..2005, 1937..2005, 1953..2024, 2094..2213, 2096..2188, 3062..3202, 3070..3204, 3071..3199, 3072..3203, 3632..3901, 3633..3902		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o1.tc	Method	TBLASTX:Cress
Start	1954	End	3995
GI	none	Score	84
Exons	1954..2037, 2094..2213, 2099..2188, 3070..3174, 3090..3167, 3160..3204, 3160..3210, 3304..3330, 3430..3513, 3430..3513, 3432..3515, 3631..3804, 3632..3865, 3633..3872, 3857..3901, 3858..3902, 3959..3991, 3960..3995		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o2.ts	Method	TBLASTX:Soybean
Start	1960	End	3979
GI	none	Score	83
Exons	1960..2037, 2094..2213, 3070..3279, 3090..3281, 3481..3513, 3632..3979, 3633..3977, 3634..3978		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o2.tc	Method	TBLASTX:Cress
Start	3261	End	4639
GI	none	Score	37
Exons	3261..3287, 3262..3297, 3337..3423, 3339..3419, 4448..4639,		

4450..4632

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o5.ts	Method	TBLASTX:Soybean
Start	3337	End	4639
GI	none	Score	118
Exons	3337..3480, 3339..3467, 4490..4639, 4490..4627, 4492..4635		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o5.tw	Method	TBLASTX:Wheat
Start	7215	End	7537
GI	none	Score	177
Exons	7215..7529, 7406..7537		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o5.tm	Method	TBLASTX:Maize
Start	7278	End	7663
GI	none	Score	172
Exons	7278..7517, 7278..7475, 7511..7663		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o2.tw	Method	TBLASTX:Wheat
Start	12304	End	12867
GI	none	Score	152
Exons	12304..12540, 12580..12867, 12688..12852, 12765..12866		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o3.tm	Method	TBLASTX:Maize
Start	12535	End	13170
GI	none	Score	86
Exons	12535..12618, 12566..12598, 12601..13023, 12693..13022, 12935..13036, 13018..13170		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o4.ts	Method	TBLASTX:Soybean
Start	12709	End	13170
GI	none	Score	270
Exons	12709..13020, 12720..13013, 13032..13151, 13042..13170		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o5.tc	Method	TBLASTX:Cress
Start	12727	End	13164
GI	none	Score	176

Exons 12727..13017, 13033..13164

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o1.ts  
Start 13443  
GI 5509260  
Exons 13443..14012, 13483..14010  
GI Descrip. -

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Soybean  
End 14012  
Score 651

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o1.tw  
Start 13528  
GI none  
Exons 13528..13617, 13534..13611, 13651..13995, 13668..13796, 13826..13912, 13827..13994

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Wheat  
End 13995  
Score 82

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o4.tc  
Start 13627  
GI none  
Exons 13627..13893, 13632..13892

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Cress  
End 13893  
Score 244

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o4.tm  
Start 13674  
GI none  
Exons 13674..14111, 13675..14121

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Maize  
End 14121  
Score 526

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o6.ts  
Start 14154  
GI none  
Exons 14154..14321, 14158..14382

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Soybean  
End 14382  
Score 192

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o4.tw  
Start 14182  
GI none  
Exons 14182..14334, 14362..14598, 14373..14597

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Wheat  
End 14598  
Score 103

Seq. No. 37612  
Gene No. 77251  
Start 16565  
Name OJ991109\_02.0118.C7.o3.tc  
Start 14362

Seq. ID OJ991109\_02.0118.C7  
Strand +  
End 16727  
Method TBLASTX:Cress  
End 15021

GI	none	Score	119
Exons	14362..14535, 14374..14544, 14656..14790, 14808..14927, 14809..15021		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o2.tm	Method	TBLASTX:Maize
Start	14365	End	15021
GI	none	Score	686
Exons	14365..15021, 14373..15020		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o3.ts	Method	TBLASTX:Soybean
Start	14383	End	15063
GI	none	Score	249
Exons	14383..14772, 14388..14543, 14577..14687, 14800..15063, 14805..14966		

Seq. No.	37612	Seq. ID	OJ991109_02.0118.C7
Gene No.	77251	Strand	+
Start	16565	End	16727
Name	OJ991109_02.0118.C7.o4.gs	Method	GENSCAN
Start	16565	End	16727
GI	none	Score	.6
Exons	16565..16727		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77252	Strand	+
Start	1	End	6000
Name	OJ991109_02.0118.C8.o1.np	Method	AAT/NAP
Start	1	End	1610
GI	6069646	Score	387
Exons	1..31, 274..378, 661..1610		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77252	Strand	+
Start	1	End	6000
Name	OJ991109_02.0118.C8.o1.gs	Method	GENSCAN
Start	140	End	6000
GI	none	Score	.45
Exons	140..168, 361..564, 779..873, 956..1429, 3145..3172, 3251..3370, 3964..4111, 4148..4164, 4275..4500, 5063..5182, 5778..6000		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77253	Strand	+
Start	6961	End	11138
Name	OJ991109_02.0118.C8.o1.gp	Method	AAT/GAP
Start	6696	End	10826
GI	2516_1.R1084	Score	3973

Exons 6696..7200, 8366..8481, 8615..8703, 8787..8900, 8985..9072, 9156..9241, 9333..9435, 9528..9625, 9736..10165, 10264..10826  
 GI Descrip. '4531444/gb|AAD22129.1|AC006224\_11 1.0e-160 (AC006224) putative protein kinase [Arabidopsis thaliana]'

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77253	Strand	+
Start	6961	End	11138
Name	OJ991109_02.0118.C8.o2.gs	Method	GENSCAN
Start	6961	End	11138
GI	none	Score	.87
Exons	6961..7045, 7051..7200, 8366..8481, 8615..8703, 8985..9072, 9156..9241, 9333..9435, 9528..9625, 9736..10165, 10222..10371, 11004..11138		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77253	Strand	+
Start	6961	End	11138
Name	OJ991109_02.0118.C8.o2.np	Method	AAT/NAP
Start	8323	End	10581
GI	6686400	Score	1378

Exons 8323..8481, 8615..8703, 8787..8900, 8985..9072, 9156..9241, 9333..9435, 9528..9625, 9736..10187, 10229..10581  
 GI Descrip. (AC007234) F1E22.18 [Arabidopsis thaliana]

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77254	Strand	+
Start	11863	End	12859
Name	OJ991109_02.0118.C8.o2.gp	Method	AAT/GAP
Start	11863	End	12859
GI	29451_1.R1084	Score	1259
Exons	11863..12320, 12671..12859		
GI Descrip.	'4531444/gb AAD22129.1 AC006224_11 6.0e-12 (AC006224) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77254	Strand	+
Start	11863	End	12859
Name	OJ991109_02.0118.C8.o3.np	Method	AAT/NAP
Start	12642	End	12859
GI	6686400	Score	192
Exons	12642..12859		
GI Descrip.	(AC007234) F1E22.18 [Arabidopsis thaliana]		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o3.tw	Method	TBLASTX:Wheat
Start	270	End	674
GI	none	Score	150
Exons	270..536, 549..674		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o2.ts	Method	TBLASTX:Soybean
Start	321	End	761

GI	none	Score	142
Exons	321..539, 624..761		
Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o2.tm	Method	TBLASTX:Maize
Start	357	End	749
GI	none	Score	305
Exons	357..749, 359..469, 536..670		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o3.tm	Method	TBLASTX:Maize
Start	965	End	1510
GI	none	Score	288
Exons	965..1498, 1177..1329, 1400..1510		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o1.tm	Method	TBLASTX:Maize
Start	6964	End	12858
GI	none	Score	68
Exons	6964..7008, 8364..8501, 8455..8502, 8612..8707, 8614..8706, 8636..8707, 8786..8893, 8787..8900, 8788..8898, 8966..9073, 8976..9071, 8989..9078, 9144..9242, 9154..9243, 9155..9241, 9276..9296, 9331..9435, 9333..9437, 9384..9437, 9525..9626, 9525..9626, 9725..10165, 9733..10164, 10267..10518, 10269..10517, 10275..10583, 10536..10601, 11989..12012, 12016..12120, 12017..12100, 12088..12120, 12666..12857, 12669..12857, 12670..12858, 12670..12858		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o1.tw	Method	TBLASTX:Wheat
Start	7057	End	12858
GI	none	Score	85
Exons	7057..7200, 7163..7201, 7167..7205, 8363..8443, 8363..8482, 8364..8444, 8364..8483, 8365..8502, 8612..8707, 8613..8705, 8614..8742, 8614..8706, 8786..8899, 8786..8902, 8954..9073, 8976..9071, 8989..9078, 9154..9189, 9154..9189, 12669..12857, 12670..12858, 12688..12858		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o1.ts	Method	TBLASTX:Soybean
Start	8391	End	12858
GI	none	Score	70
Exons	8391..8483, 8598..8705, 8612..8707, 8614..8709, 8614..8706, 8627..8725, 8785..8895, 8786..8899, 8787..8900, 8976..9071, 8992..9072, 9144..9242, 9155..9238, 9330..9437, 9331..9435, 9524..9625, 9525..9626, 9526..9624, 9527..9625, 9725..10168, 9758..10156, 9760..10167, 10263..10505, 10264..10527,		

12697..12858, 12760..12858

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o1.tc	Method	TBLASTX:Cress
Start	8394	End	12858
GI	none	Score	148
Exons	8394..8492, 8612..8707, 8614..8706, 8785..8844, 8787..8864, 8788..8811, 8860..8904, 8862..8891, 8864..8893, 8984..9019, 8989..9036, 9034..9075, 9200..9232, 9331..9435, 9331..9435, 9525..9626, 9542..9625, 9733..9897, 9733..10077, 9734..10078, 12691..12840, 12760..12858, 12774..12854		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o2.tw	Method	TBLASTX:Wheat
Start	9354	End	9814
GI	none	Score	157
Exons	9354..9437, 9355..9435, 9525..9626, 9525..9626, 9526..9630, 9725..9814, 9734..9814		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o2.tc	Method	TBLASTX:Cress
Start	10263	End	10515
GI	none	Score	289
Exons	10263..10514, 10264..10515		

Seq. No.	37613	Seq. ID	OJ991109_02.0118.C8
Gene No.	77255	Strand	-
Start	11630	End	12858
Name	OJ991109_02.0118.C8.o3.gs	Method	GENSCAN
Start	11630	End	12722
GI	none	Score	.52
Exons	11630..11810, 11910..12200, 12643..12722		

Seq. No.	37614	Seq. ID	OJ991109_02.0118.C9
Gene No.	77256	Strand	+
Start	86	End	312
Name	OJ991109_02.0118.C9.o1.gp	Method	AAT/GAP
Start	86	End	312
GI	none	Score	177
Exons	86..149, 263..312		

Seq. No.	37614	Seq. ID	OJ991109_02.0118.C9
Gene No.	77257	Strand	+
Start	610	End	643
Name	OJ991109_02.0118.C9.o1.gs	Method	GENSCAN
Start	610	End	643
GI	none	Score	.78
Exons	610..643		

Seq. No.	37615	Seq. ID	OJ991109_02.0118.C10
Gene No.	77258	Strand	+

Start	60	End	302
Name	OJ991109_02.0118.C10.o1.gs	Method	GENSCAN
Start	60	End	302
GI	none	Score	.99
Exons	60..302		

Seq. No.	37615	Seq. ID	OJ991109_02.0118.C10
Gene No.	77259	Strand	-
Start	2197	End	5651
Name	OJ991109_02.0118.C10.o2.gs	Method	GENSCAN
Start	2197	End	5651
GI	none	Score	.78
Exons	2197..2219, 2503..2777, 5593..5651		

Seq. No.	37616	Seq. ID	OJ991109_02.0118.C11
Gene No.	77260	Strand	+
Start	693	End	768
Name	OJ991109_02.0118.C11.o1.gs	Method	GENSCAN
Start	693	End	768
GI	none	Score	.84
Exons	693..768		

Seq. No.	37617	Seq. ID	OJ991109_02.0118.C12
Gene No.	77261	Strand	+
Start	33	End	249
Name	OJ991109_02.0118.C12.o1.gs	Method	GENSCAN
Start	33	End	249
GI	none	Score	.66
Exons	33..124, 129..249		

Seq. No.	37618	Seq. ID	OJ991109_02.0118.C13
Gene No.	77262	Strand	-
Start	1734	End	3523
Name	OJ991109_02.0118.C13.o1.gs	Method	GENSCAN
Start	1734	End	3523
GI	none	Score	.49
Exons	1734..1864, 2200..2412, 3272..3337, 3409..3523		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77263	Strand	+
Start	901	End	6792
Name	OJ991109_02.0118.C14.o1.gs	Method	GENSCAN
Start	901	End	6792
GI	none	Score	.78
Exons	901..959, 1032..1213, 1531..1696, 1946..2129, 2329..2581, 4003..4065, 5077..5110, 5334..5425, 6224..6320, 6710..6792		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77263	Strand	+
Start	901	End	6792
Name	OJ991109_02.0118.C14.o1.gp	Method	AAT/GAP
Start	1399	End	1762
GI	700618	Score	724
Exons	1399..1762		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77263	Strand	+



Start	901	End	6792
Name	OJ991109_02.0118.C14.o1.np	Method	AAT/NAP
Start	2363	End	4065
GI	4874266	Score	81
Exons	2363..2587, 3056..3159, 4014..4065		
GI Descrip.	(AC007354) T16B5.4 [Arabidopsis thaliana]		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77263	Strand	+
Start	901	End	6792
Name	OJ991109_02.0118.C14.o2.gp	Method	AAT/GAP
Start	4547	End	4634
GI	LIB3477-003-P1-K1-E9	Score	95
Exons	4547..4634		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77263	Strand	+
Start	901	End	6792
Name	OJ991109_02.0118.C14.o2.np	Method	AAT/NAP
Start	5353	End	6553
GI	4874266	Score	75
Exons	5353..5425, 5870..5925, 6224..6320, 6500..6553		
GI Descrip.	(AC007354) T16B5.4 [Arabidopsis thaliana]		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77264	Strand	-
Start	8108	End	8778
Name	OJ991109_02.0118.C14.o1.tm	Method	TBLASTX:Maize
Start	2507	End	5424
GI	none	Score	110
Exons	2507..2587, 2508..2585, 2509..2595, 3033..3155, 3053..3160, 3055..3162, 3978..4070, 4005..4064, 4006..4071, 4149..4277, 4150..4278, 4150..4269, 4151..4294, 5332..5424		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77264	Strand	-
Start	8108	End	8778
Name	OJ991109_02.0118.C14.o4.gp	Method	AAT/GAP
Start	8108	End	8778
GI	none	Score	1314
Exons	8108..8778		

Seq. No.	37619	Seq. ID	OJ991109_02.0118.C14
Gene No.	77264	Strand	-
Start	8108	End	8778
Name	OJ991109_02.0118.C14.o2.gs	Method	GENSCAN
Start	8488	End	8729
GI	none	Score	.8
Exons	8488..8729		

Seq. No.	37620	Seq. ID	OJ991109_02.0118.C15
Gene No.	77265	Strand	-
Start	45	End	242
Name	OJ991109_02.0118.C15.o1.gs	Method	GENSCAN

Start 45  
GI none  
Exons 45..242

End 242  
Score .48

Seq. No. 37621 Seq. ID OJ991019\_07.0118.C1  
Gene No. 77266 Strand +  
Start 1 End 533  
Name OJ991019\_07.0118.C1.o1.np Method AAT/NAP  
Start 1 End 533  
GI 2316016 Score 390  
Exons 1..236, 427..533  
GI Descrip. (U92650) MRP-like ABC transporter [Arabidopsis thaliana]

Seq. No. 37621 Seq. ID OJ991019\_07.0118.C1  
Gene No. 77266 Strand +  
Start 1 End 533  
Name OJ991019\_07.0118.C1.o1.tc Method TBLASTX:Cress  
Start 2 End 516  
GI none Score 323  
Exons 2..265, 3..236, 421..516, 426..515

Seq. No. 37621 Seq. ID OJ991019\_07.0118.C1  
Gene No. 77266 Strand +  
Start 1 End 533  
Name OJ991019\_07.0118.C1.o1.ts Method TBLASTX:Soybean  
Start 3 End 516  
GI none Score 303  
Exons 3..242, 3..236, 421..516, 426..515

Seq. No. 37621 Seq. ID OJ991019\_07.0118.C1  
Gene No. 77266 Strand +  
Start 1 End 533  
Name OJ991019\_07.0118.C1.o1.tm Method TBLASTX:Maize  
Start 9 End 244  
GI none Score 285  
Exons 9..236, 26..82, 39..236, 55..243, 55..237, 95..244, 128..238

Seq. No. 37621 Seq. ID OJ991019\_07.0118.C1  
Gene No. 77266 Strand +  
Start 1 End 533  
Name OJ991019\_07.0118.C1.o1.gs Method GENSCAN  
Start 114 End 513  
GI none Score .93  
Exons 114..236, 427..513

Seq. No. 37622 Seq. ID OJ991019\_07.0118.C2  
Gene No. 77267 Strand +  
Start 640 End 782  
Name OJ991019\_07.0118.C2.o1.gs Method GENSCAN  
Start 640 End 782  
GI none Score .81  
Exons 640..782

Seq. No. 37622 Seq. ID OJ991019\_07.0118.C2  
Gene No. 77268 Strand +  
Start 5279 End 5822  
Name OJ991019\_07.0118.C2.o4.gs Method GENSCAN

Start 5279  
GI none  
Exons 5279..5330, 5746..5822

End 5822  
Score .66

Seq. No. 37622  
Gene No. 77269  
Start 1446  
Name OJ991019\_07.0118.C2.o2.gs  
Start 1446  
GI none  
Exons 1446..1814

Seq. ID OJ991019\_07.0118.C2  
Strand -  
End 1912  
Method GENSCAN  
End 1814  
Score .97

Seq. No. 37622  
Gene No. 77269  
Start 1446  
Name OJ991019\_07.0118.C2.o1.np  
Start 1514  
GI 1592681  
Exons 1514..1814

Seq. ID OJ991019\_07.0118.C2  
Strand -  
End 1912  
Method AAT/NAP  
End 1814  
Score 168

GI Descrip. (X91917) LEA D113 homologue type2 [Arabidopsis thaliana]  
gi|3668076|gb|AAC61808.1| (AC004667) similar to late  
embryogenesis abundant proteins [Arabidopsis thaliana]

Seq. No. 37622  
Gene No. 77269  
Start 1446  
Name OJ991019\_07.0118.C2.o1.gp  
Start 1589  
GI 1632139  
Exons 1589..1912

Seq. ID OJ991019\_07.0118.C2  
Strand -  
End 1912  
Method AAT/GAP  
End 1912  
Score 604

Seq. No. 37622  
Gene No. 77270  
Start 3354  
Name OJ991019\_07.0118.C2.o3.gs  
Start 3354  
GI none  
Exons 3354..4619

Seq. ID OJ991019\_07.0118.C2  
Strand -  
End 4625  
Method GENSCAN  
End 4619  
Score .74

Seq. No. 37622  
Gene No. 77270  
Start 3354  
Name OJ991019\_07.0118.C2.o2.np  
Start 3363  
GI 4510376  
Exons 3363..4355, 4404..4625

Seq. ID OJ991019\_07.0118.C2  
Strand -  
End 4625  
Method AAT/NAP  
End 4625  
Score 417

GI Descrip. (AC007017) unknown protein [Arabidopsis thaliana]

Seq. No. 37622  
Gene No. 77271  
Start 7060  
Name OJ991019\_07.0118.C2.o1.tm  
Start 1524  
GI none  
Exons 1524..1823, 1570..1602, 1687..1824

Seq. ID OJ991019\_07.0118.C2  
Strand -  
End 7755  
Method TBLASTX:Maize  
End 1824  
Score 49

Seq. No. 37622

Seq. ID OJ991019\_07.0118.C2

Gene No.	77271	Strand	-
Start	7060	End	7755
Name	OJ991019_07.0118.C2.o1.tc	Method	TBLASTX:Cress
Start	4398	End	4605
GI	none	Score	64
Exons	4398..4493, 4503..4604, 4504..4605, 4506..4604		

Seq. No.	37622	Seq. ID	OJ991019_07.0118.C2
Gene No.	77271	Strand	-
Start	7060	End	7755
Name	OJ991019_07.0118.C2.o1.ts	Method	TBLASTX:Soybean
Start	4404	End	4613
GI	none	Score	120
Exons	4404..4448, 4449..4613, 4465..4605		

Seq. No.	37622	Seq. ID	OJ991019_07.0118.C2
Gene No.	77271	Strand	-
Start	7060	End	7755
Name	OJ991019_07.0118.C2.o2.tm	Method	TBLASTX:Maize
Start	4404	End	4622
GI	none	Score	91
Exons	4404..4505, 4503..4622, 4504..4608		

Seq. No.	37622	Seq. ID	OJ991019_07.0118.C2
Gene No.	77271	Strand	-
Start	7060	End	7755
Name	OJ991019_07.0118.C2.o1.tw	Method	TBLASTX:Wheat
Start	4404	End	4608
GI	none	Score	68
Exons	4404..4505, 4503..4595, 4503..4607, 4504..4608		

Seq. No.	37622	Seq. ID	OJ991019_07.0118.C2
Gene No.	77271	Strand	-
Start	7060	End	7755
Name	OJ991019_07.0118.C2.o5.gs	Method	GENSCAN
Start	7060	End	7755
GI	none	Score	.92
Exons	7060..7268, 7734..7755		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77272	Strand	+
Start	11602	End	15149
Name	OJ991019_07.0118.C3.o4.gs	Method	GENSCAN
Start	11602	End	14889
GI	none	Score	.75
Exons	11602..12175, 12381..14556, 14835..14889		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77272	Strand	+
Start	11602	End	15149
Name	OJ991019_07.0118.C3.o3.np	Method	AAT/NAP
Start	13287	End	15149
GI	6006359	Score	48
Exons	13287..13344, 15076..15149		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
----------	-------	---------	---------------------

Gene No.	77273	Strand	-
Start	1	End	2666
Name	OJ991019_07.0118.C3.o1.gp	Method	AAT/GAP
Start	1	End	185
GI	5771053	Score	194
Exons	1..64, 143..185		
GI Descrip.	3834314 2.0e-37 (AC005679) Similar to gene pi010 glycosyltransferase gi_2257490 from S. pombe clone 1750 gb_AB004534. ESTs gb_T46079 and gb_AA394466 come from this gene. [Arabidopsis thaliana]		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77273	Strand	-
Start	1	End	2666
Name	OJ991019_07.0118.C3.o1.np	Method	AAT/NAP
Start	1	End	2372
GI	3834314	Score	1080
Exons	1..64, 143..309, 402..544, 690..837, 938..1043, 1124..1317, 1591..1707, 2312..2372		
GI Descrip.	(AC005679) Similar to gene pi010 glycosyltransferase gi_2257490 from S. pombe clone 1750 gb_AB004534. ESTs gb_T46079 and gb_AA394466 come from this gene. [Arabidopsis thaliana]		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77273	Strand	-
Start	1	End	2666
Name	OJ991019_07.0118.C3.o1.gs	Method	GENSCAN
Start	524	End	2666
GI	none	Score	.57
Exons	524..579, 938..1043, 1124..1317, 1591..1707, 2312..2492, 2586..2666		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77273	Strand	-
Start	1	End	2666
Name	OJ991019_07.0118.C3.o2.gp	Method	AAT/GAP
Start	1168	End	2483
GI	2310574	Score	754
Exons	1168..1317, 1591..1707, 2312..2483		
GI Descrip.	3834314 8.0e-36 (AC005679) Similar to gene pi010 glycosyltransferase gi_2257490 from S. pombe clone 1750 gb_AB004534. ESTs gb_T46079 and gb_AA394466 come from this gene. [Arabidopsis thaliana]		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o1.tm	Method	TBLASTX:Maize
Start	170	End	808
GI	none	Score	192
Exons	170..310, 171..311, 171..311, 400..567, 407..547, 668..808, 668..808		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o1.ts	Method	TBLASTX:Soybean

Start	278	End	1174
GI	none	Score	75
Exons	278..310, 400..546, 464..550, 689..838, 702..839, 922..1041, 933..1046, 933..1046, 1109..1174		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o1.tc	Method	TBLASTX:Cress
Start	936	End	1729
GI	none	Score	81
Exons	936..1046, 937..1041, 1105..1317, 1109..1321, 1122..1307, 1122..1325, 1139..1318, 1587..1709, 1589..1729, 1589..1711		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o3.gp	Method	AAT/GAP
Start	3948	End	7304
GI	uC-osroM202023h12b1	Score	972
Exons	3948..4336, 7184..7304		
GI Descrip.	'3785989 8.0e-14 (AC005560) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o2.gs	Method	GENSCAN
Start	4071	End	7594
GI	none	Score	.57
Exons	4071..4240, 5596..5647, 6163..6276, 7184..7210, 7424..7594		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o2.tm	Method	TBLASTX:Maize
Start	4072	End	4328
GI	none	Score	63
Exons	4072..4158, 4076..4168, 4077..4172, 4078..4170, 4188..4325, 4189..4317, 4205..4324, 4227..4328		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o2.np	Method	AAT/NAP
Start	5366	End	15324
GI	5917666	Score	468
Exons	5366..5405, 5542..5668, 7202..7469, 7590..7724, 8272..10245, 14366..14482, 15303..15324		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	37623	Seq. ID	OJ991019_07.0118.C3
Gene No.	77274	Strand	-
Start	4071	End	15324
Name	OJ991019_07.0118.C3.o3.gs	Method	GENSCAN
Start	8313	End	10445
GI	none	Score	.54

Exons 8313..10445

Seq. No.	37624	Seq. ID	OJ991019_07.0118.C4
Gene No.	77275	Strand	+
Start	656	End	2448
Name	OJ991019_07.0118.C4.o1.gs	Method	GENSCAN
Start	656	End	2448
GI	none	Score	.79
Exons	656..798, 1680..1985, 2032..2164, 2338..2448		

Seq. No.	37624	Seq. ID	OJ991019_07.0118.C4
Gene No.	77276	Strand	+
Start	8296	End	9328
Name	OJ991019_07.0118.C4.o2.gs	Method	GENSCAN
Start	8296	End	9328
GI	none	Score	.65
Exons	8296..9118, 9258..9328		

Seq. No.	37624	Seq. ID	OJ991019_07.0118.C4
Gene No.	77277	Strand	-
Start	1	End	11098
Name	OJ991019_07.0118.C4.o1.np	Method	AAT/NAP
Start	1	End	11098
GI	5917666	Score	149
Exons	1..98, 2028..2261, 2767..3256, 3567..3657, 11072..11098		
GI Descrip.	(AF159297) extensin-like protein [Zea mays]		

Seq. No.	37624	Seq. ID	OJ991019_07.0118.C4
Gene No.	77277	Strand	-
Start	1	End	11098
Name	OJ991019_07.0118.C4.o1.gp	Method	AAT/GAP
Start	408	End	760
GI	2800006	Score	586
Exons	408..760		

Seq. No.	37624	Seq. ID	OJ991019_07.0118.C4
Gene No.	77277	Strand	-
Start	1	End	11098
Name	OJ991019_07.0118.C4.o1.tm	Method	TBLASTX:Maize
Start	653	End	2160
GI	none	Score	119
Exons	653..697, 657..743, 658..744, 659..745, 687..755, 828..893, 832..894, 839..898, 841..897, 984..1085, 985..1086, 985..1086, 2009..2146, 2010..2135, 2011..2160, 2019..2159		

Seq. No.	37624	Seq. ID	OJ991019_07.0118.C4
Gene No.	77277	Strand	-
Start	1	End	11098
Name	OJ991019_07.0118.C4.o2.np	Method	AAT/NAP
Start	10179	End	10263
GI	6721547	Score	78
Exons	10179..10263		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	37625	Seq. ID	OJ991019_07.0118.C5
Gene No.	77278	Strand	-
Start	255	End	2181

Name	OJ991019_07.0118.C5.o1.np	Method	AAT/NAP
Start	255	End	2181
GI	2342691	Score	330
Exons	255..318, 852..948, 1057..1167, 1336..1468, 1570..1631, 1716..1769, 1868..2181		
GI Descrip.	(AC000106) F7G19.26 [Arabidopsis thaliana]		

Seq. No.	37625	Seq. ID	OJ991019_07.0118.C5
Gene No.	77278	Strand	-
Start	255	End	2181
Name	OJ991019_07.0118.C5.o1.gs	Method	GENSCAN
Start	852	End	2068
GI	none	Score	.9
Exons	852..948, 1716..1769, 1868..2068		

Seq. No.	37625	Seq. ID	OJ991019_07.0118.C5
Gene No.	77278	Strand	-
Start	255	End	2181
Name	OJ991019_07.0118.C5.o1.tm	Method	TBLASTX:Maize
Start	1564	End	2023
GI	none	Score	78
Exons	1564..1632, 1568..1633, 1569..1634, 1713..1793, 1714..1785, 1716..1787, 1863..2021, 1865..2023, 1866..2000, 1867..2019, 1934..2023		

Seq. No.	37626	Seq. ID	OJ991019_07.0118.C6
Gene No.	77279	Strand	+
Start	103	End	1554
Name	OJ991019_07.0118.C6.o1.gs	Method	GENSCAN
Start	103	End	1554
GI	none	Score	.42
Exons	103..209, 988..1145, 1310..1554		

Seq. No.	37627	Seq. ID	OJ991019_07.0118.C8
Gene No.	77280	Strand	-
Start	467	End	563
Name	OJ991019_07.0118.C8.o1.gs	Method	GENSCAN
Start	467	End	563
GI	none	Score	.8
Exons	467..563		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77281	Strand	+
Start	1	End	3084
Name	OJ991019_07.0118.C10.o1.np	Method	AAT/NAP
Start	1	End	3084
GI	2316016	Score	1482
Exons	1..320, 413..577, 761..1055, 1150..1364, 1857..2162, 2493..2556, 2663..2902, 2978..3084		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77281	Strand	+
Start	1	End	3084
Name	OJ991019_07.0118.C10.o1.gs	Method	GENSCAN
Start	413	End	3081
GI	none	Score	.68



Exons 413..577, 1197..1364, 1857..2162, 2493..2556, 2663..2902, 2978..3081

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o2.tc	Method	TBLASTX:Cress
Start	2	End	3075
GI	none	Score	309
Exons	2..331, 3..332, 237..356, 401..577, 415..567, 422..580, 1242..1352, 1851..2174, 1856..2161, 2490..2552, 2495..2551, 2647..2940, 2655..2930, 2977..3075		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o2.ts	Method	TBLASTX:Soybean
Start	2	End	847
GI	none	Score	296
Exons	2..331, 3..332, 401..577, 415..567, 755..847		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o2.tm	Method	TBLASTX:Maize
Start	3	End	332
GI	none	Score	321
Exons	3..332, 8..331		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o1.tm	Method	TBLASTX:Maize
Start	410	End	3069
GI	none	Score	130
Exons	410..577, 415..558, 755..1057, 838..1053, 1140..1367, 1208..1396, 1844..2161, 1846..2163, 1851..2174, 1854..2162, 2490..2552, 2495..2548, 2647..2907, 2661..2948, 2977..3069		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o1.tc	Method	TBLASTX:Cress
Start	758	End	1241
GI	none	Score	404
Exons	758..1057, 763..1053, 1137..1241		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o1.ts	Method	TBLASTX:Soybean
Start	848	End	3111
GI	none	Score	104
Exons	848..1057, 850..1056, 851..1057, 882..1064, 1137..1367, 1151..1360, 1206..1370, 1841..2107, 1841..2161, 1842..2174, 1854..2162, 2490..2552, 2498..2551, 2647..2907, 2655..2906, 2977..3111		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o1.tw	Method	TBLASTX:Wheat
Start	2006	End	2840
GI	none	Score	141
Exons	2006..2161, 2010..2174, 2658..2840, 2662..2838		

Seq. No.	37628	Seq. ID	OJ991019_07.0118.C10
Gene No.	77282	Strand	-
Start	3484	End	6222
Name	OJ991019_07.0118.C10.o2.gs	Method	GENSCAN
Start	3484	End	6222
GI	none	Score	.42
Exons	3484..3546, 3609..3773, 5061..5261, 6205..6222		

Seq. No.	37629	Seq. ID	OJ991019_07.0118.C11
Gene No.	77283	Strand	+
Start	795	End	2370
Name	OJ991019_07.0118.C11.o1.gs	Method	GENSCAN
Start	795	End	2370
GI	none	Score	.95
Exons	795..825, 2182..2370		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77284	Strand	+
Start	235	End	5906
Name	OJ991019_07.0118.C12.o1.gs	Method	GENSCAN
Start	235	End	5906
GI	none	Score	.67
Exons	235..328, 2146..2226, 2307..3158, 3256..3322, 4350..4540, 4819..5906		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77285	Strand	+
Start	6132	End	6475
Name	OJ991019_07.0118.C12.o1.gp	Method	AAT/GAP
Start	6132	End	6475
GI	86158_1.R1084	Score	388
Exons	6132..6287, 6344..6475		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 5.0e-42 Oryza sativa genomic DNA, chromosome 6; clone:P0681F10, complete sequence'		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77286	Strand	+
Start	6860	End	7314
Name	OJ991019_07.0118.C12.o2.gp	Method	AAT/GAP
Start	6860	End	7314
GI	36280_1.R1084	Score	850
Exons	6860..7314		
GI Descrip.	'5295971/dbj BAA81872.1  1.0e-81 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
----------	-------	---------	----------------------

Gene No.	77287	Strand	+
Start	9008	End	9442
Name	OJ991019_07.0118.C12.o4.gp	Method	AAT/GAP
Start	9008	End	9442
GI	uC-osflM2020118f01a1	Score	780
Exons	9008..9442		
GI Descrip.	'5295971/dbj BAA81872.1  4.0e-64 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77288	Strand	+
Start	15632	End	16046
Name	OJ991019_07.0118.C12.o7.gp	Method	AAT/GAP
Start	15632	End	16046
GI	LIB3431-060-P1-K1-C11	Score	773
Exons	15632..16046		
GI Descrip.	'2980641/emb CAA72120  2.0e-12 (Y11250) multi resistance protein [Arabidopsis thaliana]'		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77289	Strand	-
Start	6483	End	11290
Name	OJ991019_07.0118.C12.o2.gs	Method	GENSCAN
Start	6483	End	11290
GI	none	Score	.52
Exons	6483..9151, 9163..9852, 10114..11290		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77289	Strand	-
Start	6483	End	11290
Name	OJ991019_07.0118.C12.o1.np	Method	AAT/NAP
Start	6486	End	11290
GI	5295971	Score	8056
Exons	6486..11290		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77289	Strand	-
Start	6483	End	11290
Name	OJ991019_07.0118.C12.o3.gp	Method	AAT/GAP
Start	8644	End	8999
GI	uC-osflcyp139c12a1	Score	585
Exons	8644..8999		
GI Descrip.	'5295971/dbj BAA81872.1  3.0e-44 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o5.tc	Method	TBLASTX:Cress
Start	2504	End	4224

GI	none	Score	74
Exons	2504..2668, 2702..2818, 3931..4224, 3943..4224		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o4.ts	Method	TBLASTX:Soybean
Start	6510	End	7160
GI	none	Score	51
Exons	6510..6743, 6643..6729, 6798..6968, 6826..6984, 6999..7160		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o2.tc	Method	TBLASTX:Cress
Start	6519	End	7181
GI	none	Score	101
Exons	6519..6737, 6523..6729, 6804..6884, 6808..6885, 6894..7181, 6895..6984, 7009..7095		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o4.tm	Method	TBLASTX:Maize
Start	6520	End	6909
GI	none	Score	351
Exons	6520..6906, 6522..6827, 6522..6908, 6638..6877, 6802..6909		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o4.tw	Method	TBLASTX:Wheat
Start	6549	End	6968
GI	none	Score	65
Exons	6549..6752, 6562..6729, 6798..6968, 6808..6885		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o9.tm	Method	TBLASTX:Maize
Start	6915	End	7094
GI	none	Score	122
Exons	6915..7094, 6916..7092		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o5.tw	Method	TBLASTX:Wheat
Start	7002	End	7313
GI	none	Score	64
Exons	7002..7181, 7206..7313		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o3.tm	Method	TBLASTX:Maize
Start	7096	End	7487

GI	none	Score	471
Exons	7096..7485, 7098..7487, 7098..7487		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o1.tw	Method	TBLASTX:Wheat
Start	7314	End	7869
GI	none	Score	84
Exons	7314..7538, 7524..7868, 7548..7715, 7780..7869		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o3.ts	Method	TBLASTX:Soybean
Start	7539	End	8036
GI	5509260	Score	130
Exons	7539..8036, 7558..7716, 7780..7956		
GI Descrip.	-		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o4.tc	Method	TBLASTX:Cress
Start	7650	End	7914
GI	none	Score	91
Exons	7650..7913, 7783..7914		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o6.tm	Method	TBLASTX:Maize
Start	7689	End	7985
GI	none	Score	181
Exons	7689..7985, 7690..7959		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o2.ts	Method	TBLASTX:Soybean
Start	8487	End	8966
GI	none	Score	73
Exons	8487..8633, 8658..8966, 8670..8930, 8671..8961		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o3.tc	Method	TBLASTX:Cress
Start	8511	End	8951
GI	none	Score	60
Exons	8511..8633, 8655..8951, 8665..8811		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o2.tm	Method	TBLASTX:Maize
Start	8571	End	8997

GI	none	Score	531
Exons	8571..8966, 8571..8993, 8572..8997		
Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o3.tw	Method	TBLASTX:Wheat
Start	8649	End	9182
GI	none	Score	42
Exons	8649..8729, 8662..8733, 8736..9002, 8836..8985, 9069..9182		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o2.tw	Method	TBLASTX:Wheat
Start	9272	End	9725
GI	none	Score	39
Exons	9272..9352, 9273..9347, 9344..9721, 9359..9724, 9420..9725		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o8.tm	Method	TBLASTX:Maize
Start	9395	End	9635
GI	none	Score	262
Exons	9395..9634, 9396..9635		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o1.tm	Method	TBLASTX:Maize
Start	9650	End	10370
GI	none	Score	403
Exons	9650..10075, 9650..10015, 9751..10074, 10080..10112, 10082..10177, 10094..10369, 10095..10370		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o7.tm	Method	TBLASTX:Maize
Start	10604	End	10895
GI	none	Score	226
Exons	10604..10831, 10604..10894, 10680..10895		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o1.ts	Method	TBLASTX:Soybean
Start	14164	End	16057
GI	none	Score	85
Exons	14164..14286, 14368..14613, 14369..14455, 14371..14613, 14748..14807, 15085..15384, 15086..15397, 15087..15395, 15503..15658, 15503..15718, 15510..15713, 15525..15728, 15815..16057, 15817..16056		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-

Start	14175	End	16674
Name	OJ991019_07.0118.C12.o2.np		Method AAT/NAP
Start	14175	End	16674
GI	2316016	Score	1143
Exons	14175..14281, 14369..14612, 14741..14800, 15082..15391, 15506..15720, 15852..16146, 16243..16407, 16570..16674		
GI Descrip.	(U92650). MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o1.tc	Method	TBLASTX:Cress
Start	14194	End	16674
GI	none	Score	135
Exons	14194..14286, 14368..14613, 14371..14613, 14405..14620, 15086..15397, 15087..15383, 15503..15718, 15525..15719, 15815..16150, 15817..16152, 16256..16405, 16288..16404, 16564..16674, 16568..16621		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o5.tm	Method	TBLASTX:Maize
Start	14206	End	16674
GI	none	Score	65
Exons	14206..14286, 14368..14613, 14377..14610, 14543..14617, 15083..15397, 15084..15389, 15086..15394, 15503..15721, 15853..16152, 15941..16159, 16243..16302, 16564..16674		

Seq. No.	37630	Seq. ID	OJ991019_07.0118.C12
Gene No.	77290	Strand	-
Start	14175	End	16674
Name	OJ991019_07.0118.C12.o6.tw	Method	TBLASTX:Wheat
Start	14435	End	15238
GI	none	Score	82
Exons	14435..14581, 14437..14595, 14437..14613, 14561..14617, 15086..15238, 15087..15233		

Seq. No.	37631	Seq. ID	OJ991019_07.0118.C13
Gene No.	77291	Strand	-
Start	1	End	4089
Name	OJ991019_07.0118.C13.o1.np	Method	AAT/NAP
Start	1	End	635
GI	2586082	Score	446
Exons	1..635		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	37631	Seq. ID	OJ991019_07.0118.C13
Gene No.	77291	Strand	-
Start	1	End	4089
Name	OJ991019_07.0118.C13.o1.gs	Method	GENSCAN
Start	397	End	4089
GI	none	Score	.55
Exons	397..610, 959..1361, 1486..1658, 3463..3547, 4017..4089		

Seq. No.	37632	Seq. ID	OJ991019_07.0118.C14
Gene No.	77292	Strand	-

Start	79	End	770
Name	OJ991019_07.0118.C14.o1.gs	Method	GENSCAN
Start	79	End	770
GI	none	Score	.89
Exons	79..770		

Seq. No.	37633	Seq. ID	OJ991019_07.0118.C16
Gene No.	77293	Strand	+
Start	1	End	141
Name	OJ991019_07.0118.C16.o1.gp	Method	AAT/GAP
Start	1	End	141
GI	LIB3431-060-P1-N1-C11	Score	282
Exons	1..141		
GI Descrip.	'6041757/gb AC011806.1 AC011806 1.0e-38 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	37634	Seq. ID	OJ991019_07.0118.C17
Gene No.	77294	Strand	+
Start	4018	End	4986
Name	OJ991019_07.0118.C17.o2.np	Method	AAT/NAP
Start	4018	End	4986
GI	6907106	Score	927
Exons	4018..4263, 4350..4728, 4763..4986		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37634	Seq. ID	OJ991019_07.0118.C17
Gene No.	77295	Strand	-
Start	1	End	683
Name	OJ991019_07.0118.C17.o1.np	Method	AAT/NAP
Start	1	End	683
GI	2316016	Score	200
Exons	1..683		
GI Descrip.	(U92650) MRP-like ABC transporter [Arabidopsis thaliana]		

Seq. No.	37634	Seq. ID	OJ991019_07.0118.C17
Gene No.	77296	Strand	-
Start	5446	End	6712
Name	OJ991019_07.0118.C17.o2.gs	Method	GENSCAN
Start	5446	End	6712
GI	none	Score	.79
Exons	5446..5703, 6420..6507, 6705..6712		

Seq. No.	37634	Seq. ID	OJ991019_07.0118.C17
Gene No.	77297	Strand	-
Start	8626	End	9934
Name	OJ991019_07.0118.C17.o1.tc	Method	TBLASTX:Cress
Start	1	End	683
GI	none	Score	61
Exons	1..177, 2..67, 170..319, 178..339, 534..683		

Seq. No.	37634	Seq. ID	OJ991019_07.0118.C17
Gene No.	77297	Strand	-
Start	8626	End	9934
Name	OJ991019_07.0118.C17.o1.tm	Method	TBLASTX:Maize
Start	4577	End	4889



GI	none	Score	131
Exons	4577..4684, 4579..4740, 4605..4688, 4614..4730, 4615..4740, 4631..4678, 4681..4740, 4681..4746, 4707..4742, 4756..4821, 4757..4888, 4834..4887, 4842..4889		

Seq. No.	37634	Seq. ID	OJ991019_07.0118.C17
Gene No.	77297	Strand	-
Start	8626	End	9934
Name	OJ991019_07.0118.C17.o3.gs	Method	GENSCAN
Start	8626	End	9934
GI	none	Score	.71
Exons	8626..8721, 9839..9934		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77298	Strand	+
Start	306	End	1355
Name	OJ991019_07.0118.C18.o1.gs	Method	GENSCAN
Start	306	End	1355
GI	none	Score	.81
Exons	306..376, 1205..1355		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77299	Strand	-
Start	1808	End	3520
Name	OJ991019_07.0118.C18.o2.gs	Method	GENSCAN
Start	1808	End	3478
GI	none	Score	1
Exons	1808..3478		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77299	Strand	-
Start	1808	End	3520
Name	OJ991019_07.0118.C18.o1.np	Method	AAT/NAP
Start	2249	End	3520
GI	3643598	Score	1155
Exons	2249..3520		
GI Descrip.	(AC005395) putative poly(A) polymerase [Arabidopsis thaliana]		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o2.tm	Method	TBLASTX:Maize
Start	1967	End	2416
GI	none	Score	69
Exons	1967..2110, 2147..2197, 2211..2312, 2213..2359, 2330..2416		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o2.tc	Method	TBLASTX:Cress
Start	1991	End	2416
GI	none	Score	78
Exons	1991..2110, 2016..2111, 2211..2315, 2216..2359, 2330..2416		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671

Name	OJ991019_07.0118.C18.o2.ts	Method	TBLASTX:Soybean
Start	1991	End	2545
GI	none	Score	104
Exons	1991..2110, 2213..2359, 2330..2416, 2450..2545		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o1.tm	Method	TBLASTX:Maize
Start	2439	End	3013
GI	none	Score	168
Exons	2439..2609, 2444..2614, 2589..3011, 2627..3013		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o1.tc	Method	TBLASTX:Cress
Start	2442	End	2851
GI	none	Score	121
Exons	2442..2606, 2444..2614, 2627..2851, 2643..2849		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o1.tw	Method	TBLASTX:Wheat
Start	2450	End	2792
GI	none	Score	134
Exons	2450..2614, 2454..2615, 2627..2791, 2640..2792		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o1.ts	Method	TBLASTX:Soybean
Start	2627	End	3070
GI	none	Score	323
Exons	2627..3070, 2649..3068		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o3.tc	Method	TBLASTX:Cress
Start	2858	End	3070
GI	none	Score	137
Exons	2858..3070, 2865..3068		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o3.ts	Method	TBLASTX:Soybean
Start	3245	End	3469
GI	none	Score	82
Exons	3245..3469, 3266..3451		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o2.np	Method	AAT/NAP

Start	4519	End	6671
GI	3063473	Score	359
Exons	4519..4703, 5023..5142, 5576..5710, 6389..6526, 6651..6671		
GI Descrip.	(AC003981) F22O13.35 [Arabidopsis thaliana]		

Seq. No.	37635	Seq. ID	OJ991019_07.0118.C18
Gene No.	77300	Strand	-
Start	4548	End	6671
Name	OJ991019_07.0118.C18.o3.gs	Method	GENSCAN
Start	4548	End	6156
GI	none	Score	.87
Exons	4548..4709, 5023..5142, 5576..5710, 6064..6156		

Seq. No.	37636	Seq. ID	OJ991019_07.0118.C19
Gene No.	77301	Strand	-
Start	1	End	779
Name	OJ991019_07.0118.C19.o1.np	Method	AAT/NAP
Start	1	End	779
GI	3063473	Score	372
Exons	1..193, 269..338, 522..779		
GI Descrip.	(AC003981) F22O13.35 [Arabidopsis thaliana]		

Seq. No.	37636	Seq. ID	OJ991019_07.0118.C19
Gene No.	77301	Strand	-
Start	1	End	779
Name	OJ991019_07.0118.C19.o1.tm	Method	TBLASTX:Maize
Start	6	End	156
GI	none	Score	96
Exons	6..155, 11..127, 12..131, 13..156		

Seq. No.	37636	Seq. ID	OJ991019_07.0118.C19
Gene No.	77301	Strand	-
Start	1	End	779
Name	OJ991019_07.0118.C19.o1.gs	Method	GENSCAN
Start	42	End	689
GI	none	Score	.9
Exons	42..193, 269..338, 522..689		

Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77302	Strand	+
Start	1	End	3373
Name	OJ991109_05.0121.C1.o1.np	Method	AAT/NAP
Start	1	End	3373
GI	4680179	Score	3829
Exons	1..3373		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77302	Strand	+
Start	1	End	3373
Name	OJ991109_05.0121.C1.o1.gs	Method	GENSCAN
Start	292	End	3344
GI	none	Score	.56
Exons	292..1852, 1921..3344		

Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-

Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o4.tw	Method	TBLASTX:Wheat	
Start	528	End	1011	
GI	none	Score	542	
Exons	528..983, 529..1011, 556..1002			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o5.tm	Method	TBLASTX:Maize	
Start	540	End	828	
GI	none	Score	332	
Exons	540..827, 541..828, 550..828			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o3.tm	Method	TBLASTX:Maize	
Start	898	End	1398	
GI	none	Score	154	
Exons	898..1077, 1063..1398, 1224..1388			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o1.ts	Method	TBLASTX:Soybean	
Start	952	End	1347	
GI	none	Score	56	
Exons	952..984, 952..984, 988..1347, 988..1296, 1104..1319			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o6.tw	Method	TBLASTX:Wheat	
Start	1060	End	1356	
GI	none	Score	363	
Exons	1060..1356, 1104..1319			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o2.tw	Method	TBLASTX:Wheat	
Start	1362	End	1788	
GI	none	Score	603	
Exons	1362..1751, 1363..1788, 1420..1773, 1424..1786			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	
Name	OJ991109_05.0121.C1.o3.ts	Method	TBLASTX:Soybean	
Start	1369	End	1614	
GI	none	Score	210	
Exons	1369..1614			
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1	
Gene No.	77303	Strand	-	
Start	4588	End	7093	

Name	OJ991109_05.0121.C1.o2.tm	Method	TBLASTX:Maize
Start	1435	End	1788
GI	none	Score	469
Exons	1435..1788, 1437..1736, 1511..1783		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o3.tw	Method	TBLASTX:Wheat
Start	1884	End	2363
GI	none	Score	562
Exons	1884..2363, 1991..2359		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o1.tc	Method	TBLASTX:Cress
Start	2070	End	2387
GI	none	Score	101
Exons	2070..2243, 2091..2189, 2244..2387, 2246..2371		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o2.ts	Method	TBLASTX:Soybean
Start	2156	End	2411
GI	none	Score	302
Exons	2156..2401, 2163..2411, 2283..2411		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o4.tm	Method	TBLASTX:Maize
Start	2211	End	2501
GI	none	Score	381
Exons	2211..2501, 2222..2401, 2453..2497		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o1.tw	Method	TBLASTX:Wheat
Start	2370	End	2996
GI	none	Score	675
Exons	2370..2996, 2465..2872		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o1.tm	Method	TBLASTX:Maize
Start	2553	End	3146
GI	none	Score	221
Exons	2553..2711, 2558..2704, 2708..2899, 2708..2851, 2709..3146, 2829..3146		
Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093

Name	OJ991109_05.0121.C1.o5.tw	Method	TBLASTX:Wheat
Start	2997	End	3329
GI	none	Score	370
Exons	2997..3329, 3039..3308		

Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o6.tm	Method	TBLASTX:Maize
Start	3156	End	3314
GI	none	Score	192
Exons	3156..3314, 3188..3265		

Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o2.np	Method	AAT/NAP
Start	3536	End	5326
GI	6907086	Score	1189
Exons	3536..3665, 3763..4046, 4269..4499, 4560..5326		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37637	Seq. ID	OJ991109_05.0121.C1
Gene No.	77303	Strand	-
Start	4588	End	7093
Name	OJ991109_05.0121.C1.o2.gs	Method	GENSCAN
Start	4588	End	7093
GI	none	Score	.88
Exons	4588..5034, 5863..5967, 6865..7093		

Seq. No.	37638	Seq. ID	OJ991109_05.0121.C2
Gene No.	77304	Strand	-
Start	235	End	368
Name	OJ991109_05.0121.C2.o1.gs	Method	GENSCAN
Start	235	End	368
GI	none	Score	.9
Exons	235..368		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77305	Strand	+
Start	1	End	5600
Name	OJ991109_05.0121.C3.o1.np	Method	AAT/NAP
Start	1	End	780
GI	5042448	Score	1063
Exons	1..780		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77305	Strand	+
Start	1	End	5600
Name	OJ991109_05.0121.C3.o1.gs	Method	GENSCAN
Start	73	End	5600
GI	none	Score	.46
Exons	73..457, 490..649, 1049..5600		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
----------	-------	---------	---------------------

Gene No.	77305	Strand	+
Start	1	End	5600
Name	OJ991109_05.0121.C3.o2.np	Method	AAT/NAP
Start	1035	End	5597
GI	4680179	Score	7893
Exons	1035..5597		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77306	Strand	-
Start	6454	End	7080
Name	OJ991109_05.0121.C3.o2.gs	Method	GENSCAN
Start	6454	End	7080
GI	none	Score	1
Exons	6454..7080		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o11.tw	Method	TBLASTX:Wheat
Start	1302	End	1661
GI	none	Score	308
Exons	1302..1661, 1328..1660		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o11.tm	Method	TBLASTX:Maize
Start	1542	End	1838
GI	none	Score	210
Exons	1542..1838, 1542..1826, 1559..1729		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o13.tm	Method	TBLASTX:Maize
Start	2178	End	2498
GI	none	Score	184
Exons	2178..2498, 2231..2323		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o12.tw	Method	TBLASTX:Wheat
Start	2181	End	2603
GI	none	Score	152
Exons	2181..2390, 2231..2329, 2390..2530, 2412..2603, 2441..2596		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o5.tw	Method	TBLASTX:Wheat
Start	2760	End	3242
GI	none	Score	550
Exons	2760..3242, 2864..3199, 2889..3233		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
----------	-------	---------	---------------------

Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o9.tm  
 Start 2772  
 GI none  
 Exons 2772..3059, 2870..3061

Strand -  
 End 21039  
 Method TBLASTX:Maize  
 End 3061  
 Score 322

Seq. No. 37639  
 Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o4.tm  
 Start 3129  
 GI none  
 Exons 3129..3308, 3294..3629, 3380..3514

Seq. ID OJ991109\_05.0121.C3  
 Strand -  
 End 21039  
 Method TBLASTX:Maize  
 End 3629  
 Score 161

Seq. No. 37639  
 Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o1.ts  
 Start 3183  
 GI none  
 Exons 3183..3215, 3183..3227, 3219..3578, 3219..3299, 3314..3577

Seq. ID OJ991109\_05.0121.C3  
 Strand -  
 End 21039  
 Method TBLASTX:Soybean  
 End 3578  
 Score 57

Seq. No. 37639  
 Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o6.tw  
 Start 3291  
 GI none  
 Exons 3291..3593, 3311..3592

Seq. ID OJ991109\_05.0121.C3  
 Strand -  
 End 21039  
 Method TBLASTX:Wheat  
 End 3593  
 Score 402

Seq. No. 37639  
 Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o2.tw  
 Start 3594  
 GI none  
 Exons 3594..4103, 3626..3937, 3672..4019

Seq. ID OJ991109\_05.0121.C3  
 Strand -  
 End 21039  
 Method TBLASTX:Wheat  
 End 4103  
 Score 628

Seq. No. 37639  
 Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o7.ts  
 Start 3600  
 GI none  
 Exons 3600..3845

Seq. ID OJ991109\_05.0121.C3  
 Strand -  
 End 21039  
 Method TBLASTX:Soybean  
 End 3845  
 Score 204

Seq. No. 37639  
 Gene No. 77307  
 Start 12165  
 Name OJ991109\_05.0121.C3.o3.tm  
 Start 3666  
 GI none  
 Exons 3666..4019, 3668..3934, 3720..4031

Seq. ID OJ991109\_05.0121.C3  
 Strand -  
 End 21039  
 Method TBLASTX:Maize  
 End 4031  
 Score 488

Seq. No. 37639  
 Gene No. 77307

Seq. ID OJ991109\_05.0121.C3  
 Strand -



Start	12165	End	21039
Name	OJ991109_05.0121.C3.o4.tw	Method	TBLASTX:Wheat
Start	4107	End	4586
GI	none	Score	591
Exons	4107..4586, 4140..4553, 4178..4585		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o4.tc	Method	TBLASTX:Cress
Start	4293	End	4610
GI	none	Score	89
Exons	4293..4466, 4467..4610, 4469..4609		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o4.ts	Method	TBLASTX:Soybean
Start	4374	End	4634
GI	none	Score	300
Exons	4374..4634, 4377..4538, 4379..4633		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o5.tm	Method	TBLASTX:Maize
Start	4434	End	4724
GI	none	Score	384
Exons	4434..4724, 4448..4720		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o1.tw	Method	TBLASTX:Wheat
Start	4593	End	5219
GI	none	Score	728
Exons	4593..5219, 4595..5218		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o1.tm	Method	TBLASTX:Maize
Start	4773	End	5372
GI	none	Score	226
Exons	4773..4934, 4781..4927, 4932..5372, 4934..5359		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o7.tw	Method	TBLASTX:Wheat
Start	5220	End	5587
GI	none	Score	374
Exons	5220..5552, 5247..5327, 5312..5428, 5534..5587		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039

Name	OJ991109_05.0121.C3.o12.tm	Method	TBLASTX:Maize
Start	5376	End	5573
GI	none	Score	197
Exons	5376..5573		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o3.gs	Method	GENSCAN
Start	12165	End	20953
GI	none	Score	.44
Exons	12165..12287, 12556..12632, 13703..13783, 14745..14826, 15455..15847, 16400..16627, 16667..16896, 17434..17583, 17812..19863, 20092..20272, 20717..20953		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o1.tc	Method	TBLASTX:Cress
Start	15362	End	20896
GI	none	Score	117
Exons	15362..15442, 15593..15664, 15668..15901, 15681..15827, 20640..20702, 20711..20791, 20768..20896		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o10.tm	Method	TBLASTX:Maize
Start	15593	End	15901
GI	none	Score	45
Exons	15593..15664, 15615..15665, 15668..15901, 15669..15827, 15680..15892		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o6.ts	Method	TBLASTX:Soybean
Start	15593	End	20687
GI	none	Score	41
Exons	15593..15652, 15612..15653, 15680..15901, 15681..15827, 20604..20687		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o9.tw	Method	TBLASTX:Wheat
Start	15662	End	20730
GI	none	Score	215
Exons	15662..15898, 15663..15842, 15680..15901, 15702..15914, 20640..20708, 20650..20718, 20707..20730		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o3.np	Method	AAT/NAP
Start	16292	End	20782
GI	6623973	Score	2623

Exons 16292..20272, 20726..20782  
GI Descrip. (AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o2.tm	Method	TBLASTX:Maize
Start	16301	End	16723
GI	none	Score	275
Exons	16301..16723, 16305..16706		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o3.tc	Method	TBLASTX:Cress
Start	16301	End	16903
GI	none	Score	64
Exons	16301..16513, 16529..16666, 16676..16780, 16775..16903		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o5.ts	Method	TBLASTX:Soybean
Start	16304	End	16702
GI	none	Score	54
Exons	16304..16417, 16311..16409, 16427..16702, 16430..16693, 16440..16700		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o13.tw	Method	TBLASTX:Wheat
Start	16328	End	16781
GI	none	Score	53
Exons	16328..16528, 16329..16517, 16544..16696, 16547..16747, 16560..16781		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o6.tm	Method	TBLASTX:Maize
Start	16774	End	17224
GI	none	Score	74
Exons	16774..17025, 16779..17090, 16787..17104, 16797..17090, 16802..17104, 17066..17224, 17136..17216		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o3.tw	Method	TBLASTX:Wheat
Start	16877	End	17656
GI	none	Score	134
Exons	16877..17332, 17327..17656, 17343..17654		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-

Start 12165  
Name OJ991109\_05.0121.C3.o7.tm  
Start 17231  
GI none  
Exons 17231..17659, 17364..17660

End 21039  
Method TBLASTX:Maize  
End 17660  
Score 96

Seq. No. 37639  
Gene No. 77307  
Start 12165  
Name OJ991109\_05.0121.C3.o2.ts  
Start 17245  
GI none  
Exons 17245..17511, 17246..17635, 17287..17511, 17343..17633

Seq. ID OJ991109\_05.0121.C3  
Strand -  
End 21039  
Method TBLASTX:Soybean  
End 17635  
Score 119

Seq. No. 37639  
Gene No. 77307  
Start 12165  
Name OJ991109\_05.0121.C3.o5.tc  
Start 17453  
GI none  
Exons 17453..17659, 17487..17654

Seq. ID OJ991109\_05.0121.C3  
Strand -  
End 21039  
Method TBLASTX:Cress  
End 17659  
Score 61

Seq. No. 37639  
Gene No. 77307  
Start 12165  
Name OJ991109\_05.0121.C3.o10.tw  
Start 17657  
GI none  
Exons 17657..17926, 17658..17927

Seq. ID OJ991109\_05.0121.C3  
Strand -  
End 21039  
Method TBLASTX:Wheat  
End 17927  
Score 220

Seq. No. 37639  
Gene No. 77307  
Start 12165  
Name OJ991109\_05.0121.C3.o2.tc  
Start 18017  
GI none  
Exons 18017..18265, 18281..18559

Seq. ID OJ991109\_05.0121.C3  
Strand -  
End 21039  
Method TBLASTX:Cress  
End 18559  
Score 149

Seq. No. 37639  
Gene No. 77307  
Start 12165  
Name OJ991109\_05.0121.C3.o3.ts  
Start 18128  
GI none  
Exons 18128..18277, 18263..18592, 18264..18434, 18453..18584

Seq. ID OJ991109\_05.0121.C3  
Strand -  
End 21039  
Method TBLASTX:Soybean  
End 18592  
Score 64

Seq. No. 37639  
Gene No. 77307  
Start 12165  
Name OJ991109\_05.0121.C3.o8.tw  
Start 18161  
GI none  
Exons 18161..18265, 18282..18341, 18283..18342, 18374..18826, 18450..18827

Seq. ID OJ991109\_05.0121.C3  
Strand -  
End 21039  
Method TBLASTX:Wheat  
End 18827  
Score 39

Seq. No. 37639  
Gene No. 77307

Seq. ID OJ991109\_05.0121.C3  
Strand -

Start	12165	End	21039
Name	OJ991109_05.0121.C3.o8.tm	Method	TBLASTX:Maize
Start	18353	End	18835
GI	none	Score	115
Exons	18353..18835, 18399..18701		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o14.tw	Method	TBLASTX:Wheat
Start	19546	End	19916
GI	none	Score	36
Exons	19546..19587, 19613..19684, 19673..19783, 19685..19741, 19768..19899, 19769..19915, 19770..19916		

Seq. No.	37639	Seq. ID	OJ991109_05.0121.C3
Gene No.	77307	Strand	-
Start	12165	End	21039
Name	OJ991109_05.0121.C3.o5.np	Method	AAT/NAP
Start	20717	End	21039
GI	6730665	Score	38
Exons	20717..20892, 20985..21039		
GI Descrip.	(AC007945) F28C11.15. [Arabidopsis thaliana]		

Seq. No.	37640	Seq. ID	OJ991109_05.0121.C4
Gene No.	77308	Strand	-
Start	50	End	784
Name	OJ991109_05.0121.C4.o1.gs	Method	GENSCAN
Start	50	End	784
GI	none	Score	.42
Exons	50..784		

Seq. No.	37640	Seq. ID	OJ991109_05.0121.C4
Gene No.	77309	Strand	-
Start	2607	End	4882
Name	OJ991109_05.0121.C4.o2.gs	Method	GENSCAN
Start	2607	End	4882
GI	none	Score	.8
Exons	2607..2710, 3983..4114, 4825..4882		

Seq. No.	37641	Seq. ID	OJ991109_05.0121.C5
Gene No.	77310	Strand	+
Start	488	End	526
Name	OJ991109_05.0121.C5.o1.gs	Method	GENSCAN
Start	488	End	526
GI	none	Score	.46
Exons	488..526		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o1.np	Method	AAT/NAP
Start	1	End	5326
GI	2829910	Score	2629
Exons	1..81, 470..510, 1619..3561, 3648..3794, 4263..4413, 4471..4807, 5187..5326		
GI Descrip.	(AC002291) Unknown protein, contains regulator of chromosome		

condensation motifs [Arabidopsis thaliana]

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o5.tm	Method	TBLASTX:Maize
Start	1599	End	1791
GI	none	Score	165
Exons	1599..1787, 1627..1791, 1628..1786, 1635..1790		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o1.tc	Method	TBLASTX:Cress
Start	1846	End	2901
GI	none	Score	122
Exons	1846..2124, 1894..1986, 1939..2124, 2167..2307, 2215..2247, 2236..2403, 2358..2414, 2359..2415, 2398..2688, 2449..2496, 2520..2708, 2668..2901, 2683..2805, 2691..2771, 2695..2805, 2758..2901		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o1.tm	Method	TBLASTX:Maize
Start	1846	End	2907
GI	none	Score	704
Exons	1846..2415, 1984..2115, 2038..2187, 2043..2414, 2202..2408, 2446..2634, 2446..2571, 2635..2901, 2671..2781, 2695..2907		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o1.ts	Method	TBLASTX:Soybean
Start	1894	End	2901
GI	none	Score	155
Exons	1894..2082, 2002..2163, 2049..2141, 2095..2421, 2095..2412, 2097..2441, 2446..2571, 2695..2901		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o2.ts	Method	TBLASTX:Soybean
Start	2902	End	3363
GI	none	Score	345
Exons	2902..3192, 2902..3117, 2910..3122, 3148..3363, 3169..3363		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o4.tm	Method	TBLASTX:Maize
Start	2908	End	3128
GI	none	Score	383
Exons	2908..3126, 2909..3112, 2910..3128		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+

Start	1	End	5326
Name	OJ991109_05.0121.C6.o2.tm	Method	TBLASTX:Maize
Start	3256	End	4346
GI	none	Score	177
Exons	3256..3381, 3258..3377, 3378..3413, 3379..3411, 3403..3561, 3404..3562, 3405..3563, 3472..3564, 3474..3563, 3619..3792, 3647..3805, 3648..3809, 4260..4346, 4261..4344		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o3.ts	Method	TBLASTX:Soybean
Start	3366	End	4418
GI	none	Score	68
Exons	3366..3563, 3412..3561, 3475..3564, 3621..3809, 3638..3799, 4260..4292, 4299..4418		

Seq. No.	37642	Seq. ID	OJ991109_05.0121.C6
Gene No.	77311	Strand	+
Start	1	End	5326
Name	OJ991109_05.0121.C6.o3.tm	Method	TBLASTX:Maize
Start	4439	End	5318
GI	none	Score	109
Exons	4439..4609, 4441..4476, 4443..4805, 4515..4805, 4634..4807, 5181..5315, 5185..5265, 5186..5317, 5202..5318		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77312	Strand	+
Start	1	End	568
Name	OJ991109_05.0121.C7.o1.gp	Method	AAT/GAP
Start	1	End	411
GI	17002_1.R1084	Score	777
Exons	1..411		
GI Descrip.	'3150404 6.0e-16 (AC004165) putative mitochondrial carrier protein [Arabidopsis thaliana]'		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77312	Strand	+
Start	1	End	568
Name	OJ991109_05.0121.C7.o1.np	Method	AAT/NAP
Start	1	End	511
GI	1723552	Score	179
Exons	1..511		
GI Descrip.	PUTATIVE MITOCHONDRIAL CARRIER C12B10.09 gi 1262422 emb CAA94699.1  (Z70721) agpet8 protein. [Schizosaccharomyces pombe]		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77312	Strand	+
Start	1	End	568
Name	OJ991109_05.0121.C7.o1.gs	Method	GENSCAN
Start	14	End	568
GI	none	Score	1
Exons	14..568		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77313	Strand	+

Start	2310	End	2748
Name	OJ991109_05.0121.C7.o2.gp	Method	AAT/GAP
Start	2310	End	2748
GI	none	Score	789
Exons	2310..2748		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77314	Strand	-
Start	1	End	10834
Name	OJ991109_05.0121.C7.o1.ts	Method	TBLASTX:Soybean
Start	1	End	502
GI	none	Score	83
Exons	1..57, 2..58, 58..84, 59..250, 166..201, 260..502		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77314	Strand	-
Start	1	End	10834
Name	OJ991109_05.0121.C7.o3.np	Method	AAT/NAP
Start	1	End	3419
GI	2088657	Score	251
Exons	1..27, 2945..3171, 3267..3419		
GI Descrip.	(AF002109) unknown protein [Arabidopsis thaliana]		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77314	Strand	-
Start	1	End	10834
Name	OJ991109_05.0121.C7.o2.np	Method	AAT/NAP
Start	1613	End	3495
GI	6014934	Score	136
Exons	1613..1786, 1870..1973, 2145..2290, 3457..3495		
GI Descrip.	DCL PROTEIN, CHLOROPLAST PRECURSOR (DEFECTIVE CHLOROPLASTS AND LEAVES PROTEIN) gi 1305531 (U55219) defective chloroplasts and leaves; required for chloroplast development and palisade cell differentiation in leaves [Lycopersicon esculentum] gi 1323698 (U55278) DCL [Solanum lycopersicum]		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77314	Strand	-
Start	1	End	10834
Name	OJ991109_05.0121.C7.o2.gs	Method	GENSCAN
Start	1618	End	10834
GI	none	Score	.93
Exons	1618..1833, 1870..1978, 2156..2943, 3028..3171, 3267..3440, 3483..3796, 3894..4063, 4900..5069, 5210..6814, 6906..7058, 7174..7332, 7493..7638, 7936..8005, 8304..8456, 8549..8663, 10623..10834		

Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77314	Strand	-
Start	1	End	10834
Name	OJ991109_05.0121.C7.o4.np	Method	AAT/NAP
Start	4840	End	8629
GI	2088656	Score	1225
Exons	4840..5069, 5210..6811, 6882..7058, 7174..7332, 7493..7627, 7856..8031, 8549..8629		
GI Descrip.	(AF002109) putative DNA-directed RNA polymerase II subunit [Arabidopsis thaliana]		



Seq. No.	37643	Seq. ID	OJ991109_05.0121.C7
Gene No.	77314	Strand	-
Start	1	End	10834
Name	OJ991109_05.0121.C7.o1.tm	Method	TBLASTX:Maize
Start	5600	End	5965
GI	none	Score	100
Exons	5600..5797, 5807..5965, 5820..5963		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77315	Strand	+
Start	1718	End	5865
Name	OJ991109_05.0121.C8.o1.gp	Method	AAT/GAP
Start	1718	End	3478
GI	7034_1.R1084	Score	826
Exons	1718..1993, 3201..3345, 3434..3478		
GI Descrip.	'4959460/gb AF126053.1 AF126053 6.0e-10 Zea mays RACB small GTP binding protein mRNA, complete cds'		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77315	Strand	+
Start	1718	End	5865
Name	OJ991109_05.0121.C8.o2.gs	Method	GENSCAN
Start	3156	End	5625
GI	none	Score	.88
Exons	3156..3160, 3201..3345, 3679..3809, 4379..4605, 5219..5395, 5477..5625		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77315	Strand	+
Start	1718	End	5865
Name	OJ991109_05.0121.C8.o1.np	Method	AAT/NAP
Start	3201	End	5571
GI	2497492	Score	585
Exons	3201..3345, 3434..3487, 3718..3809, 4379..4605, 5219..5395, 5477..5571		
GI Descrip.	URIDYLATE KINASE (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE) gi 1653646 dbj BAA18558  (D90915) uridine monophosphate kinase [Synechocystis sp.]		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77315	Strand	+
Start	1718	End	5865
Name	OJ991109_05.0121.C8.o2.gp	Method	AAT/GAP
Start	3741	End	5865
GI	3832_1.R1084	Score	1559
Exons	3741..3809, 4379..4605, 5219..5395, 5477..5865		
GI Descrip.	'2497492/sp P74457 PYRH_SYNY3 1.0e-50 URIDYLATE KINASE (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE) >gi_1653646_dbj_BAA18558_ (D90915) uridine monophosphate kinase [Synechocystis sp.]'		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77316	Strand	-
Start	902	End	2158
Name	OJ991109_05.0121.C8.o1.gs	Method	GENSCAN
Start	902	End	2158

GI	none	Score	.79
Exons	902..1123, 1703..2158		
Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77317	Strand	
Start	3232	End	5571
Name	OJ991109_05.0121.C8.o2.ts	Method	TBLASTX:Soybean
Start	3232	End	3765
GI	none	Score	137
Exons	3232..3360, 3270..3341, 3431..3490, 3730..3765		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77317	Strand	
Start	3232	End	5571
Name	OJ991109_05.0121.C8.o1.tm	Method	TBLASTX:Maize
Start	3442	End	5571
GI	none	Score	90
Exons	3442..3489, 3442..3489, 3446..3493, 3712..3882, 3716..3808, 3717..3815, 4375..4566, 4379..4567, 4380..4604, 5204..5392, 5217..5393, 5218..5394, 5218..5391, 5244..5393, 5466..5570, 5467..5571, 5476..5571		

Seq. No.	37644	Seq. ID	OJ991109_05.0121.C8
Gene No.	77317	Strand	
Start	3232	End	5571
Name	OJ991109_05.0121.C8.o1.ts	Method	TBLASTX:Soybean
Start	4449	End	5559
GI	none	Score	134
Exons	4449..4556, 4454..4567, 4460..4561, 4556..4609, 4557..4604, 5204..5392, 5218..5394, 5218..5391, 5244..5402, 5439..5558, 5467..5559		

Seq. No.	37645	Seq. ID	OJ991109_05.0121.C11
Gene No.	77318	Strand	+
Start	839	End	1393
Name	OJ991109_05.0121.C11.o1.gp	Method	AAT/GAP
Start	839	End	1393
GI	none	Score	667
Exons	839..878, 973..1041, 1131..1393		

Seq. No.	37645	Seq. ID	OJ991109_05.0121.C11
Gene No.	77318	Strand	+
Start	839	End	1393
Name	OJ991109_05.0121.C11.o1.gs	Method	GENSCAN
Start	839	End	1370
GI	none	Score	.91
Exons	839..878, 973..1041, 1131..1370		

Seq. No.	37645	Seq. ID	OJ991109_05.0121.C11
Gene No.	77319	Strand	+
Start	3020	End	3571
Name	OJ991109_05.0121.C11.o1.tc	Method	TBLASTX:Cress
Start	852	End	1367
GI	none	Score	47
Exons	852..881, 970..1065, 975..1040, 1128..1367, 1128..1208, 1130..1366, 1314..1367		

Seq. No.	37645	Seq. ID	OJ991109_05.0121.C11
Gene No.	77319	Strand	+
Start	3020	End	3571
Name	OJ991109_05.0121.C11.o2.gs	Method	GENSCAN
Start	3020	End	3571
GI	none	Score	1
Exons	3020..3571		

Seq. No.	37646	Seq. ID	OJ991109_05.0121.C12
Gene No.	77320	Strand	-
Start	81	End	3341
Name	OJ991109_05.0121.C12.o1.gs	Method	GENSCAN
Start	81	End	3274
GI	none	Score	.82
Exons	81..500, 629..728, 1358..1574, 2023..2096, 2265..2299, 2711..3274		

Seq. No.	37646	Seq. ID	OJ991109_05.0121.C12
Gene No.	77320	Strand	-
Start	81	End	3341
Name	OJ991109_05.0121.C12.o1.np	Method	AAT/NAP
Start	284	End	3341
GI	3935138	Score	556
Exons	284..500, 629..728, 1040..1126, 1358..1749, 2229..2299, 2708..2863, 2990..3341		
GI Descrip.	(AC005106) T25N20.2 [Arabidopsis thaliana]		

Seq. No.	37647	Seq. ID	OJ991109_05.0121.C13
Gene No.	77321	Strand	+
Start	1161	End	4099
Name	OJ991109_05.0121.C13.o1.gs	Method	GENSCAN
Start	1161	End	3823
GI	none	Score	.74
Exons	1161..1345, 1396..1433, 1825..2103, 2192..2359, 3306..3482, 3636..3823		

Seq. No.	37647	Seq. ID	OJ991109_05.0121.C13
Gene No.	77321	Strand	+
Start	1161	End	4099
Name	OJ991109_05.0121.C13.o1.gp	Method	AAT/GAP
Start	1235	End	2018
GI	none	Score	915
Exons	1235..1433, 1618..1714, 1825..2018		

Seq. No.	37647	Seq. ID	OJ991109_05.0121.C13
Gene No.	77321	Strand	+
Start	1161	End	4099
Name	OJ991109_05.0121.C13.o1.tw	Method	TBLASTX:Wheat
Start	2187	End	3705
GI	none	Score	244
Exons	2187..2363, 2191..2358, 2191..2364, 3372..3470, 3389..3478, 3392..3469, 3402..3482, 3634..3705, 3635..3703		

Seq. No.	37647	Seq. ID	OJ991109_05.0121.C13
Gene No.	77321	Strand	+
Start	1161	End	4099
Name	OJ991109_05.0121.C13.o1.tc	Method	TBLASTX:Cress

Start 3634  
GI none  
Exons 3634..3822, 3635..3823

End 3823  
Score 184

Seq. No. 37647  
Gene No. 77321  
Start 1161  
Name OJ991109\_05.0121.C13.o2.gp  
Start 3677  
GI none  
Exons 3677..4099

Seq. ID OJ991109\_05.0121.C13  
Strand +  
End 4099  
Method AAT/GAP  
End 4099  
Score 811

Seq. No. 37648  
Gene No. 77322  
Start 132  
Name OJ991109\_05.0121.C14.o1.gs  
Start 132  
GI none  
Exons 132..272

Seq. ID OJ991109\_05.0121.C14  
Strand -  
End 272  
Method GENSCAN  
End 272  
Score .79

Seq. No. 37649  
Gene No. 77323  
Start 82  
Name OJ991109\_05.0121.C15.o1.gs  
Start 82  
GI none  
Exons 82..966

Seq. ID OJ991109\_05.0121.C15  
Strand +  
End 966  
Method GENSCAN  
End 966  
Score .65

Seq. No. 37650  
Gene No. 77324  
Start 1  
Name OJ991109\_05.0121.C16.o2.np  
Start 1  
GI 5777617  
Exons 1..61, 435..542  
GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. ID OJ991109\_05.0121.C16  
Strand +  
End 542  
Method AAT/NAP  
End 542  
Score 70

Seq. No. 37650  
Gene No. 77325  
Start 1  
Name OJ991109\_05.0121.C16.o1.np  
Start 1  
GI 6069657  
Exons 1..131  
GI Descrip. (AP000616) hypothetical protein [Oryza sativa]

Seq. ID OJ991109\_05.0121.C16  
Strand -  
End 1252  
Method AAT/NAP  
End 131  
Score 131

Seq. No. 37650  
Gene No. 77325  
Start 1  
Name OJ991109\_05.0121.C16.o3.np  
Start 1  
GI 5669672  
Exons 1..74, 851..1007, 1213..1252  
GI Descrip. (AF100770) receptor-like kinase [Hordeum vulgare]

Seq. ID OJ991109\_05.0121.C16  
Strand -  
End 1252  
Method AAT/NAP  
End 1252  
Score 62

Seq. No. 37651  
Gene No. 77326

Seq. ID OJ991109\_05.0121.C18  
Strand +

Start	1	End	60
Name	OJ991109_05.0121.C18.o1.gp		Method AAT/GAP
Start	1	End	60
GI	77434_1.R1084	Score	100
Exons	1..60		
GI Descrip.	'2827528/emb CAA16536.1  2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77327	Strand	+
Start	2469	End	2894
Name	OJ991029_09.0120.C1.o1.gs	Method	GENSCAN
Start	2469	End	2894
GI	none	Score	.99
Exons	2469..2894		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77328	Strand	+
Start	4626	End	5580
Name	OJ991029_09.0120.C1.o1.gp	Method	AAT/GAP
Start	4626	End	5580
GI	3672_1.R1084	Score	1849

Exons	4626..5580		
GI Descrip.	'3929323 8.0e-35 (AF100332) putative 21D7 protein [Dendrobium grex Madame Thong-IN]'		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77329	Strand	+
Start	11875	End	13187
Name	OJ991029_09.0120.C1.o4.gs	Method	GENSCAN
Start	11875	End	12866
GI	none	Score	.62
Exons	11875..12044, 12144..12729, 12786..12866		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77329	Strand	+
Start	11875	End	13187
Name	OJ991029_09.0120.C1.o4.gp	Method	AAT/GAP
Start	12259	End	13187
GI	none	Score	569
Exons	12259..12289, 12780..13187		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77330	Strand	+
Start	16104	End	17378
Name	OJ991029_09.0120.C1.o6.gs	Method	GENSCAN
Start	16104	End	17378
GI	none	Score	.59
Exons	16104..16205, 17331..17378		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77331	Strand	+
Start	25050	End	31225
Name	OJ991029_09.0120.C1.o8.gs	Method	GENSCAN
Start	25050	End	31225
GI	none	Score	.78
Exons	25050..25069, 25723..25876, 26009..26060, 26968..29751,		

30223..30999, 31194..31225

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77331	Strand	+
Start	25050	End	31225
Name	OJ991029_09.0120.C1.o5.np	Method	AAT/NAP
Start	25724	End	27426
GI	6056407	Score	209
Exons	25724..25956, 26968..27426		
GI Descrip.	(AC009525) Similar to glutathione S-transferases. [Arabidopsis thaliana]		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77332	Strand	+
Start	33776	End	33988
Name	OJ991029_09.0120.C1.o9.gs	Method	GENSCAN
Start	33776	End	33988
GI	none	Score	.73
Exons	33776..33988		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77333	Strand	+
Start	35239	End	37963
Name	OJ991029_09.0120.C1.o10.gs	Method	GENSCAN
Start	35239	End	37963
GI	none	Score	1
Exons	35239..35421, 35501..36514, 36607..37589, 37690..37963		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77334	Strand	+
Start	45970	End	49457
Name	OJ991029_09.0120.C1.o14.gs	Method	GENSCAN
Start	45970	End	49457
GI	none	Score	.45
Exons	45970..46282, 47103..47287, 48786..48858, 49025..49147, 49273..49457		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77334	Strand	+
Start	45970	End	49457
Name	OJ991029_09.0120.C1.o7.np	Method	AAT/NAP
Start	48140	End	48246
GI	5852093	Score	.73
Exons	48140..48246		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77335	Strand	-
Start	5078	End	8394
Name	OJ991029_09.0120.C1.o2.gs	Method	GENSCAN
Start	5078	End	8344
GI	none	Score	.95
Exons	5078..5590, 5666..5905, 6139..6249, 6344..6398, 6492..6628, 6704..6841, 7818..7943, 7991..8181, 8269..8344		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77335	Strand	-

Start	5078	End	8394
Name	OJ991029_09.0120.C1.o1.np	Method	AAT/NAP
Start	5081	End	8347
GI	3914467	Score	1766
Exons	5081..5590, 5666..5905, 6139..6249, 6344..6394, 6488..6628, 6704..6841, 7991..8181, 8269..8347		
GI Descrip.	26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7) gi 1864003 dbj BAA19252  (AB001422) 21D7 [Nicotiana tabacum]		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77335	Strand	-
Start	5078	End	8394
Name	OJ991029_09.0120.C1.o2.gp	Method	AAT/GAP
Start	5706	End	6818
GI	9001_1.R1084	Score	1120
Exons	5706..5905, 6139..6249, 6344..6398, 6492..6628, 6704..6818		
GI Descrip.	'3914467/sp P93768 PSD3 TOBAC 5.0e-83 26S PROTEASOME REGULATORY SUBUNIT S3 (NUCLEAR ANTIGEN 21D7) >gi_1864003_dbj_BAA19252_ (AB001422) 21D7 [Nicotiana tabacum]'		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77335	Strand	-
Start	5078	End	8394
Name	OJ991029_09.0120.C1.o3.gp	Method	AAT/GAP
Start	8023	End	8394
GI	426277	Score	513
Exons	8023..8181, 8269..8394		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77336	Strand	-
Start	9506	End	15003
Name	OJ991029_09.0120.C1.o3.gs	Method	GENSCAN
Start	9506	End	11157
GI	none	Score	.91
Exons	9506..10079, 10535..11157		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77336	Strand	-
Start	9506	End	15003
Name	OJ991029_09.0120.C1.o2.np	Method	AAT/NAP
Start	9527	End	14904
GI	5668808	Score	1304
Exons	9527..10079, 10535..11163, 114638..14904		
GI Descrip.	(AC007519) F16N3.20 [Arabidopsis thaliana]		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77336	Strand	-
Start	9506	End	15003
Name	OJ991029_09.0120.C1.o5.gp	Method	AAT/GAP
Start	12253	End	13185
GI	none	Score	567
Exons	12253..12286, 12777..13185		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77336	Strand	-
Start	9506	End	15003
Name	OJ991029_09.0120.C1.o5.gs	Method	GENSCAN

Start 14599  
GI none  
Exons 14599..15003

End 15003  
Score .53

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77337 Strand -  
Start 17837 End 23524  
Name OJ991029\_09.0120.C1.o3.np Method AAT/NAP  
Start 17837 End 20155  
GI 6598805 Score 369  
Exons 17837..17932, 19039..19415, 19698..19876, 19983..20155  
GI Descrip. (AF024504) unknown protein [Arabidopsis thaliana]

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77337 Strand -  
Start 17837 End 23524  
Name OJ991029\_09.0120.C1.o7.gs Method GENSCAN  
Start 18981 End 23524  
GI none Score .89  
Exons 18981..19415, 19698..19876, 19983..20169, 22607..22654,  
23453..23524

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77337 Strand -  
Start 17837 End 23524  
Name OJ991029\_09.0120.C1.o6.gp Method AAT/GAP  
Start 19084 End 19430  
GI none Score 586  
Exons 19084..19430

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77337 Strand -  
Start 17837 End 23524  
Name OJ991029\_09.0120.C1.o4.np Method AAT/NAP  
Start 19233 End 22471  
GI 5852093 Score 77  
Exons 19233..19370, 20930..21087, 22415..22471  
GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77337 Strand -  
Start 17837 End 23524  
Name OJ991029\_09.0120.C1.o7.gp Method AAT/GAP  
Start 19816 End 20209  
GI none Score 488  
Exons 19816..19876, 19983..20209

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77338 Strand -  
Start 38963 End 39394  
Name OJ991029\_09.0120.C1.o11.gs Method GENSCAN  
Start 38963 End 39394  
GI none Score .91  
Exons 38963..39394

Seq. No. 37652 Seq. ID OJ991029\_09.0120.C1  
Gene No. 77339 Strand -



Start	41824	End	46835
Name	OJ991029_09.0120.C1.o6.np	Method	AAT/NAP
Start	41824	End	46835
GI	6069654	Score	594
Exons	41824..43510, 44927..45001, 46780..46835		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77339	Strand	-
Start	41824	End	46835
Name	OJ991029_09.0120.C1.o13.gs	Method	GENSCAN
Start	43884	End	45623
GI	none	Score	.42
Exons	43884..43941, 44148..44353, 45278..45476, 45619..45623		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77339	Strand	-
Start	41824	End	46835
Name	OJ991029_09.0120.C1.o8.gp	Method	AAT/GAP
Start	45907	End	46294
GI	3761586	Score	696
Exons	45907..46294		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77340	Strand	-
Start	46816	End	47180
Name	OJ991029_09.0120.C1.o9.gp	Method	AAT/GAP
Start	46816	End	47180
GI	3761585	Score	678
Exons	46816..47180		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o1.tm	Method	TBLASTX:Maize
Start	5036	End	8182
GI	none	Score	463
Exons	5036..5110, 5044..5493, 5137..5589, 5160..5588, 5174..5590, 5178..5591, 5183..5593, 5613..5909, 5664..5906, 5666..5908, 6124..6252, 6139..6198, 6140..6268, 6326..6397, 6333..6398, 6335..6400, 6476..6628, 6489..6629, 6490..6630, 6704..6844, 6704..6841, 6709..6843, 7989..8039, 7991..8179, 8123..8182		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o1.ts	Method	TBLASTX:Soybean
Start	5078	End	8179
GI	none	Score	250
Exons	5078..5110, 5157..5546, 5158..5589, 5174..5590, 5181..5591, 5213..5593, 5623..5793, 5642..5908, 5665..5907, 5666..5908, 5667..5909, 5845..5910, 6139..6198, 6140..6253, 6326..6397, 6348..6395, 6476..6628, 6492..6629, 6704..6844, 6704..6841, 7991..8179		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-

Start	51090	End	51448
Name	OJ991029_09.0120.C1.o1.tc	Method	TBLASTX:Cress
Start	5152	End	5875
GI	none	Score	102
Exons	5152..5346, 5161..5346, 5166..5381, 5174..5392, 5181..5390, 5454..5543, 5477..5545, 5543..5590, 5562..5591, 5598..5870, 5666..5875, 5672..5875		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o1.tw	Method	TBLASTX:Wheat
Start	5666	End	6186
GI	none	Score	241
Exons	5666..5896, 5667..5891, 5668..5892, 6136..6186, 6140..6184		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o3.tc	Method	TBLASTX:Cress
Start	5876	End	6754
GI	none	Score	78
Exons	5876..5908, 6125..6211, 6139..6252, 6139..6198, 6326..6394, 6467..6628, 6492..6629, 6497..6631, 6499..6633, 6704..6754, 6705..6752		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o2.tm	Method	TBLASTX:Maize
Start	9522	End	10025
GI	none	Score	552
Exons	9522..9662, 9528..10025, 9533..9925		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o2.tc	Method	TBLASTX:Cress
Start	9539	End	14859
GI	none	Score	132
Exons	9539..9913, 9702..9830, 9954..10079, 10004..10075, 10064..10096, 10535..11161, 10537..11160, 14635..14859, 14636..14779		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o2.ts	Method	TBLASTX:Soybean
Start	9545	End	14826
GI	none	Score	162
Exons	9545..9922, 9588..9881, 9951..10067, 10004..10075, 10531..11160, 10898..11161, 14620..14826		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o3.tm	Method	TBLASTX:Maize
Start	10552	End	14805

GI	none	Score	37
Exons	10552..10635, 10573..10632, 10648..10713, 10717..10863, 10723..10920, 10912..11160, 10913..11161, 14635..14805, 14638..14805		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o2.tw	Method	TBLASTX:Wheat
Start	10717	End	10986
GI	none	Score	54
Exons	10717..10773, 10720..10986, 10898..10948		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o6.tm	Method	TBLASTX:Maize
Start	19029	End	19416
GI	none	Score	53
Exons	19029..19112, 19098..19160, 19099..19161, 19278..19415, 19278..19415, 19318..19416		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o4.tm	Method	TBLASTX:Maize
Start	25700	End	27209
GI	none	Score	40
Exons	25700..25729, 25739..25876, 25748..25840, 25758..25880, 25979..26077, 26880..27209, 26951..27136, 26967..27167		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o4.tc	Method	TBLASTX:Cress
Start	26967	End	27389
GI	none	Score	80
Exons	26967..27116, 27180..27389		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o3.ts	Method	TBLASTX:Soybean
Start	27027	End	27392
GI	none	Score	79
Exons	27027..27134, 27029..27100, 27150..27302, 27210..27296, 27312..27392		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o5.tm	Method	TBLASTX:Maize
Start	39020	End	39401
GI	none	Score	116
Exons	39020..39139, 39026..39145, 39073..39162, 39102..39272, 39102..39224, 39143..39283, 39320..39394, 39327..39398, 39333..39401		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o5.tc	Method	TBLASTX:Cress
Start	39032	End	39398
GI	none	Score	118
Exons	39032..39289, 39048..39263, 39299..39397, 39324..39398		

Seq. No.	37652	Seq. ID	OJ991029_09.0120.C1
Gene No.	77341	Strand	-
Start	51090	End	51448
Name	OJ991029_09.0120.C1.o15.gs	Method	GENSCAN
Start	51090	End	51448
GI	none	Score	.42
Exons	51090..51372, 51378..51448		

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77342	Strand	+
Start	1	End	6144
Name	OJ991029_09.0120.C2.o1.np	Method	AAT/NAP
Start	1	End	3485
GI	3080426	Score	789
Exons	1..281, 401..912, 1029..1174, 1796..2019, 2736..3485		
GI Descrip.	(AL022604) putative protein [Arabidopsis thaliana]		

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77342	Strand	+
Start	1	End	6144
Name	OJ991029_09.0120.C2.o1.gs	Method	GENSCAN
Start	60	End	6144
GI	none	Score	.55
Exons	60..419, 515..927, 1029..1174, 1796..2019, 2264..2330, 2776..3505, 3645..3672, 4924..5108, 5348..6144		

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77343	Strand	+
Start	8045	End	9024
Name	OJ991029_09.0120.C2.o2.gs	Method	GENSCAN
Start	8045	End	9024
GI	none	Score	.89
Exons	8045..8638, 8746..8823, 8992..9024		

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o2.np	Method	AAT/NAP
Start	9878	End	15133
GI	2558663	Score	284
Exons	9878..10495, 14972..15133		
GI Descrip.	(AC002354) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o3.gs	Method	GENSCAN
Start	9884	End	10597

GI	none	Score	.75
Exons	9884..10597		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o4.gs	Method	GENSCAN
Start	11614	End	15136
GI	none	Score	.59
Exons	11614..12288, 13029..13085, 13135..13159, 14126..14157, 14315..15136		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o2.gp	Method	AAT/GAP
Start	13901	End	14255
GI	3761685	Score	646
Exons	13901..14255		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o3.np	Method	AAT/NAP
Start	14399	End	18875
GI	2558663	Score	281
Exons	14399..15049, 18561..18593, 18765..18875		
GI Descrip.	(AC002354) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o5.gs	Method	GENSCAN
Start	15868	End	17053
GI	none	Score	.48
Exons	15868..15873, 16169..17053		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o6.gs	Method	GENSCAN
Start	18174	End	19253
GI	none	Score	.5
Exons	18174..18776, 19248..19253		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77344	Strand	+
Start	9884	End	19253
Name	OJ991029_09.0120.C2.o4.gp	Method	AAT/GAP
Start	18213	End	18571
GI	none	Score	697
Exons	18213..18571		
Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77345	Strand	-
Start	8484	End	13103
Name	OJ991029_09.0120.C2.o1.gp	Method	AAT/GAP

Start 8484  
GI none  
Exons 8484..8789, 12982..13103

End 13103  
Score 816

Seq. No. 37653  
Gene No. 77346  
Start 14818  
Name OJ991029\_09.0120.C2.o1.ts  
Start 807  
GI none  
Exons 807..911, 1076..1174, 1087..1173, 1793..2020, 2737..3099

Seq. ID OJ991029\_09.0120.C2  
Strand -  
End 18827  
Method TBLASTX:Soybean  
End 3099  
Score 82

Seq. No. 37653  
Gene No. 77346  
Start 14818  
Name OJ991029\_09.0120.C2.o5.tm  
Start 891  
GI none  
Exons 891..926, 891..926, 1026..1172, 1027..1173, 1028..1174, 1793..1840

Seq. ID OJ991029\_09.0120.C2  
Strand -  
End 18827  
Method TBLASTX:Maize  
End 1840  
Score 56

Seq. No. 37653  
Gene No. 77346  
Start 14818  
Name OJ991029\_09.0120.C2.o3.tm  
Start 1841  
GI none  
Exons 1841..2020, 1841..2020, 1864..2022, 2722..3030, 2723..2857, 2733..3062, 2735..3034, 2736..3065, 2737..3081

Seq. ID OJ991029\_09.0120.C2  
Strand -  
End 18827  
Method TBLASTX:Maize  
End 3081  
Score 243

Seq. No. 37653  
Gene No. 77346  
Start 14818  
Name OJ991029\_09.0120.C2.o1.tc  
Start 2944  
GI none  
Exons 2944..3192, 3009..3161

Seq. ID OJ991029\_09.0120.C2  
Strand -  
End 18827  
Method TBLASTX:Cress  
End 3192  
Score 240

Seq. No. 37653  
Gene No. 77346  
Start 14818  
Name OJ991029\_09.0120.C2.o1.tm  
Start 3082  
GI none  
Exons 3082..3348, 3082..3348, 3119..3349, 3327..3479, 3328..3489, 3346..3489

Seq. ID OJ991029\_09.0120.C2  
Strand -  
End 18827  
Method TBLASTX:Maize  
End 3489  
Score 341

Seq. No. 37653  
Gene No. 77346  
Start 14818  
Name OJ991029\_09.0120.C2.o4.tm  
Start 8045  
GI none  
Exons 8045..8245, 9883..10077, 9884..10075, 11614..11730, 11614..11724, 11647..11793, 11732..11794, 14399..14599, 14401..14541, 14405..14596, 16321..16434, 16322..16516, 16451..16513, 18173..18223, 18198..18356, 18221..18277

Seq. ID OJ991029\_09.0120.C2  
Strand -  
End 18827  
Method TBLASTX:Maize  
End 18356  
Score 156

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77346	Strand	-
Start	14818	End	18827
Name	OJ991029_09.0120.C2.o2.tm	Method	TBLASTX:Maize
Start	8258	End	18827
GI	none	Score	167
Exons	8258..8476, 8294..8476, 8477..8566, 8488..8565, 8612..8701, 8623..8700, 10112..10255, 10153..10239, 10229..10474, 10261..10464, 10457..10546, 11824..12267, 11824..11988, 11865..12266, 14635..14880, 14636..14797, 14794..14958, 14852..14959, 14967..15083, 14996..15085, 15050..15085, 16552..16755, 16553..16765, 16568..16756, 16594..16767, 16721..16876, 16913..17002, 18292..18339, 18387..18542, 18390..18554, 18392..18595, 18428..18607, 18587..18826, 18609..18827		

Seq. No.	37653	Seq. ID	OJ991029_09.0120.C2
Gene No.	77346	Strand	-
Start	14818	End	18827
Name	OJ991029_09.0120.C2.o3.gp	Method	AAT/GAP
Start	14818	End	15279
GI	3761684	Score	876
Exons	14818..15279		

Seq. No.	37654	Seq. ID	OJ991019_04.0121.C1
Gene No.	77347	Strand	+
Start	1	End	1026
Name	OJ991019_04.0121.C1.o1.gp	Method	AAT/GAP
Start	1	End	880
GI	4715214	Score	840
Exons	1..266, 704..880		
GI Descrip.	3287832/sp P93665 DCS1 GOSHI 1.0e-33 (+)-DELTA-CADINENE SYNTHASE (D-CADINENE SYNTHASE) >gi_1843647 (U88318) (+)-delta-cadinene synthase [Gossypium hirsutum]		

Seq. No.	37654	Seq. ID	OJ991019_04.0121.C1
Gene No.	77347	Strand	+
Start	1	End	1026
Name	OJ991019_04.0121.C1.o1.np	Method	AAT/NAP
Start	1	End	1026
GI	5360653	Score	268
Exons	1..266, 704..1026		
GI Descrip.	(AB022598) vetispiradiene synthase [Solanum tuberosum]		

Seq. No.	37654	Seq. ID	OJ991019_04.0121.C1
Gene No.	77347	Strand	+
Start	1	End	1026
Name	OJ991019_04.0121.C1.o1.tm	Method	TBLASTX:Maize
Start	3	End	954
GI	none	Score	52
Exons	3..50, 7..45, 70..165, 84..164, 187..270, 196..267, 702..932, 706..954		

Seq. No.	37654	Seq. ID	OJ991019_04.0121.C1
Gene No.	77347	Strand	+
Start	1	End	1026

Name	OJ991019_04.0121.C1.o1.gs	Method	GENSCAN
Start	704	End	922
GI	none	Score	.7
Exons	704..922		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77348	Strand	+
Start	1	End	13039
Name	OJ991019_04.0121.C2.o1.np	Method	AAT/NAP
Start	1	End	1357
GI	3287832	Score	222
Exons	1..163, 408..656, 1070..1357		
GI Descrip.	(+) -DELTA-CADINENE SYNTHASE (D-CADINENE SYNTHASE) gi 1843647 (U88318) (+) -delta-cadinene synthase [Gossypium hirsutum]		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77348	Strand	+
Start	1	End	13039
Name	OJ991019_04.0121.C2.o2.np	Method	AAT/NAP
Start	1	End	5033
GI	5295971	Score	1291
Exons	1..24, 1869..3797, 4926..5033		
GI Descrip.	(AB026295). EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77348	Strand	+
Start	1	End	13039
Name	OJ991019_04.0121.C2.o1.gs	Method	GENSCAN
Start	62	End	13039
GI	none	Score	.48
Exons	62..163, 408..656, 1070..1339, 1772..1838, 1963..2011, 2294..2398, 2410..2459, 2775..3043, 3157..3588, 6344..6410, 7222..7426, 8519..8637, 8792..8919, 9014..9902, 9991..10348, 10381..10876, 11174..11950, 12245..12518, 12888..13039		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77348	Strand	+
Start	1	End	13039
Name	OJ991019_04.0121.C2.o1.gp	Method	AAT/GAP
Start	1170	End	1744
GI	4715215	Score	1088
Exons	1170..1744		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77349	Strand	+
Start	19973	End	22087
Name	OJ991019_04.0121.C2.o3.gs	Method	GENSCAN
Start	19973	End	22087
GI	none	Score	.4
Exons	19973..20026, 20116..21340, 21741..21889, 21909..21941, 21992..22087		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77350	Strand	+
Start	23887	End	24291



Name	OJ991019_04.0121.C2.o4.np	Method	AAT/NAP
Start	23887	End	24291
GI	2462640	Score	504
Exons	23887..24291		
GI Descrip.	(Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77351	Strand	-
Start	13294	End	19871
Name	OJ991019_04.0121.C2.o2.gs	Method	GENSCAN
Start	13294	End	19281
GI	none	Score	.54
Exons	13294..13459, 13476..14146, 14381..15076, 15206..17254, 17363..17533, 18019..18213, 18465..18786, 18806..19281		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77351	Strand	-
Start	13294	End	19871
Name	OJ991019_04.0121.C2.o3.np	Method	AAT/NAP
Start	13297	End	19871
GI	4378066	Score	3031
Exons	13297..18320, 18993..19160, 19713..19871		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor]		

gi|4680208|gb|AAD27571.1|AF114171\_12 (AF114171) polyprotein [Sorghum bicolor]

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o9.tm	Method	TBLASTX:Maize
Start	44	End	656
GI	none	Score	112
Exons	44..151, 403..582, 408..656, 435..644, 542..655		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o5.tw	Method	TBLASTX:Wheat
Start	596	End	1369
GI	none	Score	75
Exons	596..649, 597..650, 1076..1216, 1081..1224, 1096..1227, 1219..1359, 1220..1369		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o7.tm	Method	TBLASTX:Maize
Start	1105	End	1363
GI	none	Score	230
Exons	1105..1362, 1106..1363		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o1.ts	Method	TBLASTX:Soybean
Start	2433	End	2956
GI	5509260	Score	175

Exons 2433..2720, 2606..2740, 2780..2956, 2785..2946  
GI Descrip. -

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o5.tm	Method	TBLASTX:Maize
Start	2498	End	2818
GI	none	Score	245
Exons	2498..2779, 2499..2780, 2780..2818		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o6.tw	Method	TBLASTX:Wheat
Start	2639	End	3178
GI	none	Score	77
Exons	2639..2770, 2640..2720, 2780..2983, 2794..2979, 2969..3178		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o3.tm	Method	TBLASTX:Maize
Start	3038	End	3459
GI	none	Score	142
Exons	3038..3187, 3038..3187, 3189..3455, 3190..3459, 3217..3459		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o8.tw	Method	TBLASTX:Wheat
Start	3181	End	3582
GI	none	Score	66
Exons	3181..3300, 3325..3582		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o3.ts	Method	TBLASTX:Soybean
Start	3321	End	3644
GI	none	Score	229
Exons	3321..3497, 3322..3588, 3322..3585, 3591..3644		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o11.tw	Method	TBLASTX:Wheat
Start	13306	End	13894
GI	none	Score	107
Exons	13306..13431, 13616..13747, 13775..13894		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o10.tm	Method	TBLASTX:Maize
Start	13607	End	13849
GI	none	Score	46

Exons	13607..13849, 13608..13679, 13800..13844		
Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o4.ts	Method	TBLASTX:Soybean
Start	13865	End	14239
GI	none	Score	47
Exons	13865..14089, 13872..14090, 14094..14210, 14096..14239		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o4.tm	Method	TBLASTX:Maize
Start	13880	End	14242
GI	none	Score	99
Exons	13880..14242, 13889..14056, 13938..14150		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o7.tw	Method	TBLASTX:Wheat
Start	14012	End	14392
GI	none	Score	52
Exons	14012..14392, 14021..14212, 14190..14357		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o8.tm	Method	TBLASTX:Maize
Start	14243	End	14509
GI	none	Score	77
Exons	14243..14509, 14244..14399		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o4.tw	Method	TBLASTX:Wheat
Start	14711	End	15143
GI	none	Score	192
Exons	14711..15142, 14712..15143		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o9.tw	Method	TBLASTX:Wheat
Start	15209	End	15586
GI	none	Score	63
Exons	15209..15334, 15216..15329, 15410..15586		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o2.ts	Method	TBLASTX:Soybean
Start	15419	End	15793
GI	none	Score	40
Exons	15419..15793, 15420..15485, 15521..15700, 15600..15743		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o2.tm	Method	TBLASTX:Maize
Start	15512	End	15895
GI	none	Score	195
Exons	15512..15895, 15525..15782, 15623..15874		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o1.tw	Method	TBLASTX:Wheat
Start	15635	End	16054
GI	none	Score	100
Exons	15635..16054, 15636..15851, 15638..16042, 15885..16052		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o1.tm	Method	TBLASTX:Maize
Start	15923	End	16280
GI	none	Score	229
Exons	15923..16279, 15924..16280		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o3.tw	Method	TBLASTX:Wheat
Start	16055	End	16408
GI	none	Score	81
Exons	16055..16192, 16055..16408, 16056..16382		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o10.tw	Method	TBLASTX:Wheat
Start	16613	End	16966
GI	none	Score	85
Exons	16613..16834, 16614..16835, 16841..16966		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o12.tw	Method	TBLASTX:Wheat
Start	17818	End	18192
GI	none	Score	55
Exons	17818..18192, 17837..17998		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o11.tm	Method	TBLASTX:Maize
Start	17905	End	18174
GI	none	Score	199
Exons	17905..18174		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o4.gs	Method	GENSCAN
Start	22681	End	23669
GI	none	Score	.53
Exons	22681..22798, 23255..23370, 23646..23669		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77352	Strand	-
Start	22681	End	23669
Name	OJ991019_04.0121.C2.o2.tw	Method	TBLASTX:Wheat
Start	22834	End	23133
GI	none	Score	359
Exons	22834..23133, 22881..23117		

Seq. No.	37655	Seq. ID	OJ991019_04.0121.C2
Gene No.	77353	Strand	-
Start	23923	End	24336
Name	OJ991019_04.0121.C2.o6.tm	Method	TBLASTX:Maize
Start	23923	End	24336
GI	none	Score	265
Exons	23923..24336, 24159..24191, 24261..24317		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77354	Strand	+
Start	4187	End	10221
Name	OJ991019_04.0121.C3.o1.np	Method	AAT/NAP
Start	3666	End	7721
GI	6063554	Score	329
Exons	3666..3793, 5984..6277, 6395..6622, 7547..7721		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77354	Strand	+
Start	4187	End	10221
Name	OJ991019_04.0121.C3.o2.gs	Method	GENSCAN
Start	4187	End	5635
GI	none	Score	.8
Exons	4187..4293, 4332..4452, 5011..5154, 5240..5635		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77354	Strand	+
Start	4187	End	10221
Name	OJ991019_04.0121.C3.o4.gs	Method	GENSCAN
Start	7579	End	9771
GI	none	Score	.84
Exons	7579..7581, 9138..9434, 9451..9771		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77354	Strand	+
Start	4187	End	10221
Name	OJ991019_04.0121.C3.o2.np	Method	AAT/NAP
Start	9138	End	10221
GI	4512229	Score	652

Exons 9138..9712, 10185..10221  
 GI Descrip. (AB014740) ORE0 protein [Oryza sativa]

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77354	Strand	+
Start	4187	End	10221
Name	OJ991019_04.0121.C3.o3.np	Method	AAT/NAP
Start	10085	End	10221
GI	6721517	Score	82
Exons	10085..10221		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77355	Strand	-
Start	20	End	1756
Name	OJ991019_04.0121.C3.o1.gs	Method	GENSCAN
Start	20	End	1756
GI	none	Score	.66
Exons	20..303, 1693..1756		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77356	Strand	-
Start	5980	End	7029
Name	OJ991019_04.0121.C3.o3.gs	Method	GENSCAN
Start	5980	End	7029
GI	none	Score	.67
Exons	5980..6109, 6286..6656, 6898..7029		

Seq. No.	37656	Seq. ID	OJ991019_04.0121.C3
Gene No.	77357	Strand	-
Start	8211	End	8373
Name	OJ991019_04.0121.C3.o1.gp	Method	AAT/GAP
Start	8211	End	8373
GI	3106931	Score	224
Exons	8211..8373		
GI Descrip.	4680335/gb AF128457.1 AF128457 2.0e-28 Oryza sativa subsp. indica BAC clone 16F19 php20725 region, complete sequence		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o1.np	Method	AAT/NAP
Start	1	End	1020
GI	4680179	Score	1421
Exons	1..1020		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o3.tw	Method	TBLASTX:Wheat
Start	2	End	198
GI	none	Score	137
Exons	2..196, 28..198, 36..197		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+

Start	1	End	1020
Name	OJ991019_04.0121.C4.o2.tm	Method	TBLASTX:Maize
Start	37	End	536
GI	none	Score	116
Exons	37..180, 45..170, 235..411, 363..407, 405..536		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o1.ts	Method	TBLASTX:Soybean
Start	91	End	482
GI	none	Score	54
Exons	91..123, 91..123, 127..180, 127..411, 235..411, 405..482		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o2.tw	Method	TBLASTX:Wheat
Start	199	End	500
GI	none	Score	220
Exons	199..402, 238..411, 246..410, 404..499, 405..500		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o1.tw	Method	TBLASTX:Wheat
Start	501	End	926
GI	none	Score	564
Exons	501..926, 503..919, 576..926		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o2.ts	Method	TBLASTX:Soybean
Start	507	End	755
GI	none	Score	193
Exons	507..755, 542..736		

Seq. No.	37657	Seq. ID	OJ991019_04.0121.C4
Gene No.	77358	Strand	+
Start	1	End	1020
Name	OJ991019_04.0121.C4.o1.tm	Method	TBLASTX:Maize
Start	573	End	926
GI	none	Score	446
Exons	573..926, 578..841, 579..911		

Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77359	Strand	+
Start	1	End	1136
Name	OJ991019_04.0121.C5.o1.np	Method	AAT/NAP
Start	1	End	1136
GI	4680179	Score	1688
Exons	1..1136		
GI Descrip.	(AF1111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77359	Strand	+

Start 1  
 Name OJ991019\_04.0121.C5.o1.gs  
 Start 358  
 GI none  
 Exons 358..1133

End 1136  
 Method GENSCAN  
 End 1133  
 Score .73

Seq. No. 37658  
 Gene No. 77360  
 Start 1448  
 Name OJ991019\_04.0121.C5.o2.gs  
 Start 1448  
 GI none  
 Exons 1448..1585, 1882..1983

Seq. ID OJ991019\_04.0121.C5  
 Strand -  
 End 1983  
 Method GENSCAN  
 End 1983  
 Score .9

Seq. No. 37658  
 Gene No. 77361  
 Start 2217  
 Name OJ991019\_04.0121.C5.o1.ts  
 Start 1  
 GI none  
 Exons 1..174, 3..173

Seq. ID OJ991019\_04.0121.C5  
 Strand -  
 End 6112  
 Method TBLASTX:Soybean  
 End 174  
 Score 202

Seq. No. 37658  
 Gene No. 77361  
 Start 2217  
 Name OJ991019\_04.0121.C5.o4.tw  
 Start 1  
 GI none  
 Exons 1..126, 2..112, 3..125

Seq. ID OJ991019\_04.0121.C5  
 Strand -  
 End 6112  
 Method TBLASTX:Wheat  
 End 126  
 Score 179

Seq. No. 37658  
 Gene No. 77361  
 Start 2217  
 Name OJ991019\_04.0121.C5.o2.tm  
 Start 1  
 GI none  
 Exons 1..264, 1..231, 12..260

Seq. ID OJ991019\_04.0121.C5  
 Strand -  
 End 6112  
 Method TBLASTX:Maize  
 End 264  
 Score 336

Seq. No. 37658  
 Gene No. 77361  
 Start 2217  
 Name OJ991019\_04.0121.C5.o1.tw  
 Start 133  
 GI none  
 Exons 133..405, 189..404, 405..758, 411..752, 674..757

Seq. ID OJ991019\_04.0121.C5  
 Strand -  
 End 6112  
 Method TBLASTX:Wheat  
 End 758  
 Score 310

Seq. No. 37658  
 Gene No. 77361  
 Start 2217  
 Name OJ991019\_04.0121.C5.o1.tm  
 Start 313  
 GI none  
 Exons 313..405, 321..413, 321..404, 471..896, 585..887, 683..895

Seq. ID OJ991019\_04.0121.C5  
 Strand -  
 End 6112  
 Method TBLASTX:Maize  
 End 896  
 Score 134

Seq. No. 37658  
 Gene No. 77361

Seq. ID OJ991019\_04.0121.C5  
 Strand -



Start	2217	End	6112
Name	OJ991019_04.0121.C5.o2.tw	Method	TBLASTX:Wheat
Start	759	End	1091
GI	none	Score	356
Exons	759..1091, 762..875, 851..898		
Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77361	Strand	-
Start	2217	End	6112
Name	OJ991019_04.0121.C5.o3.tw	Method	TBLASTX:Wheat
Start	2188	End	2937
GI	none	Score	87
Exons	2188..2355, 2208..2363, 2218..2364, 2353..2496, 2364..2501, 2883..2930, 2884..2937		
Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77361	Strand	-
Start	2217	End	6112
Name	OJ991019_04.0121.C5.o3.tm	Method	TBLASTX:Maize
Start	2214	End	2472
GI	none	Score	137
Exons	2214..2471, 2215..2472		
Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77361	Strand	-
Start	2217	End	6112
Name	OJ991019_04.0121.C5.o3.gs	Method	GENSCAN
Start	2217	End	5934
GI	none	Score	.54
Exons	2217..2507, 2877..3125, 3302..3442, 4916..5118, 5631..5934		
Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77361	Strand	-
Start	2217	End	6112
Name	OJ991019_04.0121.C5.o2.np	Method	AAT/NAP
Start	2220	End	6112
GI	763421	Score	524
Exons	2220..2502, 2872..3125, 3302..3437, 4030..4248, 4740..5118, 5631..5892, 6000..6112		
GI Descrip.	(U20187) vetispiradiene synthase [synthetic construct]		
Seq. No.	37658	Seq. ID	OJ991019_04.0121.C5
Gene No.	77361	Strand	-
Start	2217	End	6112
Name	OJ991019_04.0121.C5.o4.tm	Method	TBLASTX:Maize
Start	2844	End	5017
GI	none	Score	108
Exons	2844..3113, 2893..3105, 3305..3433, 4029..4253, 4032..4247, 4742..5017		
Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77362	Strand	+
Start	1121	End	1299
Name	OJ991019_04.0121.C6.o1.gp	Method	AAT/GAP
Start	1121	End	1299
GI	15870_2.R1084	Score	247
Exons	1121..1299		

GI Descrip. '287403/dbj|D10838|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o1.gs	Method	GENSCAN
Start	413	End	9485
GI	none	Score	.47
Exons	413..487, 1865..1994, 2242..2313, 3913..4022, 4068..4145, 4599..5414, 6409..6492, 6538..6658, 7981..8177, 8627..9485		

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o2.ts	Method	TBLASTX:Soybean
Start	2997	End	3332
GI	none	Score	53
Exons	2997..3332, 3004..3168, 3220..3264		

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o1.tm	Method	TBLASTX:Maize
Start	3102	End	3794
GI	none	Score	47
Exons	3102..3197, 3225..3296, 3363..3707, 3759..3794		

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o4.np	Method	AAT/NAP
Start	5033	End	11796
GI	6705984	Score	424
Exons	5033..5108, 8900..9395, 11720..11796		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o3.np	Method	AAT/NAP
Start	7041	End	8831
GI	6498436	Score	387
Exons	7041..7238, 7458..7645, 7890..8001, 8101..8578, 8627..8831		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o2.tm	Method	TBLASTX:Maize
Start	8925	End	9159
GI	none	Score	76
Exons	8925..9158, 9025..9159		

Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796

Name	OJ991019_04.0121.C6.o1.ts	Method	TBLASTX:Soybean
Start	8928	End	9347
GI	none	Score	50
Exons	8928..9086, 8965..9045, 9078..9290, 9078..9347		
Seq. No.	37659	Seq. ID	OJ991019_04.0121.C6
Gene No.	77363	Strand	-
Start	413	End	11796
Name	OJ991019_04.0121.C6.o1.tw	Method	TBLASTX:Wheat
Start	8940	End	9395
GI	none	Score	85
Exons	8940..9110, 8959..9099, 9017..9124, 9117..9395, 9129..9275		
Seq. No.	37660	Seq. ID	OJ991019_04.0121.C7
Gene No.	77364	Strand	+
Start	26	End	1830
Name	OJ991019_04.0121.C7.o1.gs	Method	GENSCAN
Start	26	End	1830
GI	none	Score	.45
Exons	26..177, 749..837, 1562..1830		
Seq. No.	37660	Seq. ID	OJ991019_04.0121.C7
Gene No.	77364	Strand	+
Start	26	End	1830
Name	OJ991019_04.0121.C7.o1.gp	Method	AAT/GAP
Start	149	End	672
GI	none	Score	1000
Exons	149..672		
Seq. No.	37660	Seq. ID	OJ991019_04.0121.C7
Gene No.	77365	Strand	-
Start	4945	End	6023
Name	OJ991019_04.0121.C7.o1.tw	Method	TBLASTX:Wheat
Start	4939	End	5229
GI	none	Score	70
Exons	4939..5088, 4949..5023, 5042..5224, 5092..5226, 5092..5229		
Seq. No.	37660	Seq. ID	OJ991019_04.0121.C7
Gene No.	77365	Strand	-
Start	4945	End	6023
Name	OJ991019_04.0121.C7.o3.gs	Method	GENSCAN
Start	4945	End	6023
GI	none	Score	.65
Exons	4945..5235, 5516..5731, 6018..6023		
Seq. No.	37660	Seq. ID	OJ991019_04.0121.C7
Gene No.	77365	Strand	-
Start	4945	End	6023
Name	OJ991019_04.0121.C7.o1.tm	Method	TBLASTX:Maize
Start	4955	End	5205
GI	none	Score	109
Exons	4955..5200, 4957..5199, 4960..5205		
Seq. No.	37660	Seq. ID	OJ991019_04.0121.C7
Gene No.	77365	Strand	-
Start	4945	End	6023
Name	OJ991019_04.0121.C7.o2.tm	Method	TBLASTX:Maize

Start	5516	End	5776
GI	none	Score	34
Exons	5516..5584, 5528..5575, 5556..5762, 5573..5776, 5588..5773		

Seq. No.	37661	Seq. ID	OJ991019_04.0121.C8
Gene No.	77366	Strand	+
Start	5466	End	8833
Name	OJ991019_04.0121.C8.o3.gs	Method	GENSCAN
Start	5466	End	8833
GI	none	Score	.77
Exons	5466..5793, 5901..6080, 7757..7881, 8702..8833		

Seq. No.	37661	Seq. ID	OJ991019_04.0121.C8
Gene No.	77367	Strand	-
Start	1	End	1573
Name	OJ991019_04.0121.C8.o1.np	Method	AAT/NAP
Start	1	End	1573
GI	3287832	Score	323
Exons	1..556, 900..1138, 1428..1573		
GI Descrip.	(+) -DELTA-CADINENE SYNTHASE (D-CADINENE SYNTHASE) gi 1843647 (U88318) (+) -delta-cadinene synthase [Gossypium hirsutum]		

Seq. No.	37661	Seq. ID	OJ991019_04.0121.C8
Gene No.	77368	Strand	-
Start	2968	End	4923
Name	OJ991019_04.0121.C8.o2.gs	Method	GENSCAN
Start	2968	End	4923
GI	none	Score	.71
Exons	2968..3138, 4729..4923		

Seq. No.	37661	Seq. ID	OJ991019_04.0121.C8
Gene No.	77369	Strand	-
Start	7934	End	8273
Name	OJ991019_04.0121.C8.o1.gp	Method	AAT/GAP
Start	7934	End	8273
GI	LIB3433-030-P1-K1-C12	Score	666
Exons	7934..8273		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	37661	Seq. ID	OJ991019_04.0121.C8
Gene No.	77370	Strand	-
Start	9619	End	11093
Name	OJ991019_04.0121.C8.o1.tm	Method	TBLASTX:Maize
Start	139	End	462
GI	none	Score	104
Exons	139..462, 180..455		

Seq. No.	37661	Seq. ID	OJ991019_04.0121.C8
Gene No.	77370	Strand	-
Start	9619	End	11093
Name	OJ991019_04.0121.C8.o4.gs	Method	GENSCAN
Start	9619	End	11093
GI	none	Score	.61
Exons	9619..9799, 9828..9987, 10905..11093		

Seq. No.	37662	Seq. ID	OJ991019_04.0121.C9
----------	-------	---------	---------------------

Gene No.	77371	Strand	+
Start	27	End	2280
Name	OJ991019_04.0121.C9.o1.gp	Method	AAT/GAP
Start	27	End	1046
GI	LIB3431-062-P1-K1-B3	Score	867
Exons	27..345, 834..1046		
GI Descrip.	'4733937/gb AAC31570.2  8.0e-23 (AF080245) sesquiterpene synthase [Elaeis oleifera]'		

Seq. No.	37662	Seq. ID	OJ991019_04.0121.C9
Gene No.	77371	Strand	+
Start	27	End	2280
Name	OJ991019_04.0121.C9.o1.gs	Method	GENSCAN
Start	129	End	1900
GI	none	Score	.67
Exons	129..345, 834..1212, 1449..1667, 1765..1900		

Seq. No.	37662	Seq. ID	OJ991019_04.0121.C9
Gene No.	77371	Strand	+
Start	27	End	2280
Name	OJ991019_04.0121.C9.o1.np	Method	AAT/NAP
Start	187	End	2280
GI	3287826	Score	440
Exons	187..345, 834..1212, 1449..1667, 1765..1903, 2245..2280		
GI Descrip.	(+)-DELTA-CADINENE SYNTHASE ISOZYME C2 (D-CADINENE SYNTHASE) gi 2879841 emb CAA76223.1  (Y16432) (+)-delta-cadinene synthase [Gossypium arboreum]		

Seq. No.	37662	Seq. ID	OJ991019_04.0121.C9
Gene No.	77371	Strand	+
Start	27	End	2280
Name	OJ991019_04.0121.C9.o1.tc	Method	TBLASTX:Cress
Start	839	End	1201
GI	none	Score	206
Exons	839..1201		

Seq. No.	37662	Seq. ID	OJ991019_04.0121.C9
Gene No.	77371	Strand	+
Start	27	End	2280
Name	OJ991019_04.0121.C9.o1.tm	Method	TBLASTX:Maize
Start	928	End	1897
GI	none	Score	214
Exons	928..1215, 935..1210, 1450..1668, 1450..1515, 1614..1667, 1769..1897, 1771..1887		

Seq. No.	37663	Seq. ID	OJ991019_04.0121.C10
Gene No.	77372	Strand	+
Start	241	End	531
Name	OJ991019_04.0121.C10.o1.gs	Method	GENSCAN
Start	241	End	531
GI	none	Score	.73
Exons	241..531		

Seq. No.	37663	Seq. ID	OJ991019_04.0121.C10
Gene No.	77373	Strand	+
Start	2886	End	2974
Name	OJ991019_04.0121.C10.o3.gp	Method	AAT/GAP

Start 2886  
GI none  
Exons 2886..2974

End 2974  
Score 130

Seq. No. 37663  
Gene No. 77374  
Start 5619  
Name OJ991019\_04.0121.C10.o4.gp  
Start 5619  
GI 83529\_1.R1084  
Exons 5619..6391  
GI Descrip. '4521194/dbj|AB013613.1|AB013613 6.0e-79 Oryza sativa DNA, centromere sequence RCB11'

Seq. ID OJ991019\_04.0121.C10  
Strand +  
End 6391  
Method AAT/GAP  
End 6391  
Score 1318

Seq. No. 37663  
Gene No. 77375  
Start 12145  
Name OJ991019\_04.0121.C10.o3.gs  
Start 12145  
GI none  
Exons 12145..12226, 12335..12720, 12780..12960, 12990..13175, 13463..13553, 15594..15648

Seq. ID OJ991019\_04.0121.C10  
Strand +  
End 15648  
Method GENSCAN  
End 15648  
Score .89

Seq. No. 37663  
Gene No. 77376  
Start 17837  
Name OJ991019\_04.0121.C10.o4.gs  
Start 17837  
GI none  
Exons 17837..18046

Seq. ID OJ991019\_04.0121.C10  
Strand +  
End 18046  
Method GENSCAN  
End 18046  
Score .72

Seq. No. 37663  
Gene No. 77377  
Start 186  
Name OJ991019\_04.0121.C10.o1.gp  
Start 186  
GI LIB3431-062-P1-N1-B3  
Exons 186..681  
GI Descrip. '3108343 1.0e-10 (AF061285) sesquiterpene cyclase [Capsicum annuum]'

Seq. ID OJ991019\_04.0121.C10  
Strand -  
End 681  
Method AAT/GAP  
End 681  
Score 879

Seq. No. 37663  
Gene No. 77378  
Start 2740  
Name OJ991019\_04.0121.C10.o2.tm  
Start 226  
GI none  
Exons 226..513, 250..471

Seq. ID OJ991019\_04.0121.C10  
Strand -  
End 11683  
Method TBLASTX:Maize  
End 513  
Score 230

Seq. No. 37663  
Gene No. 77378  
Start 2740  
Name OJ991019\_04.0121.C10.o1.tw  
Start 247  
GI none  
Exons 247..384, 250..384, 251..388, 388..531, 453..527, 462..542

Seq. ID OJ991019\_04.0121.C10  
Strand -  
End 11683  
Method TBLASTX:Wheat  
End 542  
Score 159

Seq. No.	37663	Seq. ID	OJ991019_04.0121.C10
Gene No.	77378	Strand	-
Start	2740	End	11683
Name	OJ991019_04.0121.C10.o2.gp	Method	AAT/GAP
Start	1263	End	2344
GI	none	Score	966
Exons	1263..1727, 1759..1807, 2270..2344		

Seq. No.	37663	Seq. ID	OJ991019_04.0121.C10
Gene No.	77378	Strand	-
Start	2740	End	11683
Name	OJ991019_04.0121.C10.o2.gs	Method	GENSCAN
Start	2740	End	9180
GI	none	Score	.66
Exons	2740..2841, 2922..2972, 3851..3930, 4403..4541, 4616..4714, 7790..7941, 8087..8203, 8346..8523, 9178..9180		

Seq. No.	37663	Seq. ID	OJ991019_04.0121.C10
Gene No.	77378	Strand	-
Start	2740	End	11683
Name	OJ991019_04.0121.C10.o1.tm	Method	TBLASTX:Maize
Start	4982	End	11683
GI	none	Score	74
Exons	4982..5104, 5100..5372, 5100..5255, 5204..5224, 5259..5411, 5267..5377, 5271..5420, 5277..5396, 5288..5419, 5291..5422, 5294..5374, 5355..5423, 5358..5450, 5358..5450, 5359..5451, 5412..5504, 5413..5502, 5413..5511, 5433..5594, 5439..5591, 5439..5516, 5442..5600, 5446..5604, 5453..5569, 5456..5563, 5466..5585, 5471..5602, 5488..5595, 5495..5617, 5533..5571, 5634..5723, 5643..5765, 5648..5722, 5649..5750, 5655..5717, 9514..9627, 9516..9641, 9522..9632, 9524..9643, 9525..9629, 9533..9640, 9541..9639, 9542..9640, 9551..9643, 11016..11135, 11027..11146, 11028..11186, 11031..11180, 11038..11193, 11043..11195, 11043..11192, 11051..11146, 11066..11149, 11123..11221, 11130..11222, 11130..11207, 11183..11275, 11184..11276, 11211..11363, 11211..11363, 11219..11377, 11220..11366, 11223..11378, 11228..11368, 11250..11396, 11255..11389, 11256..11396, 11411..11479, 11419..11457, 11426..11485, 11534..11668, 11537..11656, 11567..11659, 11567..11599, 11585..11683		

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77379	Strand	+
Start	301	End	3528
Name	OJ991019_04.0121.C11.o1.np	Method	AA1/NAP
Start	301	End	3507
GI	3201969	Score	538
Exons	301..439, 630..724, 2535..2649, 2770..2894, 3292..3362, 3450..3507		
GI Descrip.	(AF068332) submergence induced protein 2A [Oryza sativa]		

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77379	Strand	+
Start	301	End	3528
Name	OJ991019_04.0121.C11.o1.gs	Method	GENSCAN
Start	319	End	3528
GI	none	Score	.78

Exons 319..439, 630..724, 2535..2649, 2770..2894, 3292..3362, 3450..3528

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77380	Strand	-
Start	3949	End	4125
Name	OJ991019_04.0121.C11.o1.tw	Method	TBLASTX:Wheat
Start	316	End	3363
GI	none	Score	63
Exons	316..366, 327..353, 364..435, 379..435, 620..724, 628..711, 2534..2659, 2535..2651, 2732..2899, 2769..2903, 3283..3363		

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77380	Strand	-
Start	3949	End	4125
Name	OJ991019_04.0121.C11.o1.tc	Method	TBLASTX:Cress
Start	328	End	3363
GI	none	Score	63
Exons	328..366, 364..435, 584..724, 620..724, 2534..2650, 2535..2651, 2732..2899, 2769..2903, 3283..3363		

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77380	Strand	-
Start	3949	End	4125
Name	OJ991019_04.0121.C11.o1.tm	Method	TBLASTX:Maize
Start	328	End	3398
GI	none	Score	63
Exons	328..366, 364..435, 613..732, 620..724, 2527..2646, 2534..2650, 2535..2651, 2732..2899, 2765..2899, 2769..2903, 3283..3363, 3294..3398		

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77380	Strand	-
Start	3949	End	4125
Name	OJ991019_04.0121.C11.o1.ts	Method	TBLASTX:Soybean
Start	328	End	3363
GI	none	Score	62
Exons	328..366, 364..435, 620..724, 620..724, 2527..2649, 2534..2650, 2535..2651, 2732..2890, 2769..2903, 3283..3363		

Seq. No.	37664	Seq. ID	OJ991019_04.0121.C11
Gene No.	77380	Strand	-
Start	3949	End	4125
Name	OJ991019_04.0121.C11.o2:gs	Method	GENSCAN
Start	3949	End	4125
GI	none	Score	.91
Exons	3949..3980, 4104..4125		

Seq. No.	37665	Seq. ID	OJ991019_04.0121.C12
Gene No.	77381	Strand	+
Start	539	End	759
Name	OJ991019_04.0121.C12.o1.gs	Method	GENSCAN
Start	539	End	759
GI	none	Score	.54
Exons	539..759		

Seq. No.	37666	Seq. ID	OJ991019_04.0121.C13
----------	-------	---------	----------------------



Gene No.	77382	Strand	+
Start	1788	End	10605
Name	OJ991019_04.0121.C13.o1.np	Method	AAT/NAP
Start	1788	End	10605
GI	6630459	Score	91
Exons	1788..1901, 5034..5184, 6827..6961, 10582..10605		
GI Descrip.	(AC007190) F23N19.12 [Arabidopsis thaliana]		

Seq. No.	37666	Seq. ID	OJ991019_04.0121.C13
Gene No.	77382	Strand	+
Start	1788	End	10605
Name	OJ991019_04.0121.C13.o2.np	Method	AAT/NAP
Start	9008	End	10605
GI	4733937	Score	130
Exons	9008..9089, 10015..10079, 10188..10458, 10574..10605		
GI Descrip.	(AF080245) sesquiterpene synthase [Elaeis oleifera]		

Seq. No.	37666	Seq. ID	OJ991019_04.0121.C13
Gene No.	77383	Strand	-
Start	4251	End	9609
Name	OJ991019_04.0121.C13.o2.gs	Method	GENSCAN
Start	4251	End	9609
GI	none	Score	5
Exons	4251..4342, 4918..5389, 6286..6430, 6898..7032, 7536..7672, 9607..9609		

Seq. No.	37667	Seq. ID	OJ991029_01.0128.C2
Gene No.	77384	Strand	-
Start	1531	End	2188
Name	OJ991029_01.0128.C2.o1.gs	Method	GENSCAN
Start	1531	End	2188
GI	none	Score	.67
Exons	1531..1544, 2140..2188		

Seq. No.	37668	Seq. ID	OJ991029_01.0128.C3
Gene No.	77385	Strand	+
Start	1	End	1124
Name	OJ991029_01.0128.C3.o1.np	Method	AAT/NAP
Start	1	End	1124
GI	6006359	Score	60
Exons	1..67, 277..399, 1105..1124		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	37668	Seq. ID	OJ991029_01.0128.C3
Gene No.	77385	Strand	+
Start	1	End	1124
Name	OJ991029_01.0128.C3.o1.gs	Method	GENSCAN
Start	225	End	455
GI	none	Score	.69
Exons	225..455		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o1.np	Method	AAT/NAP
Start	1	End	2558
GI	6466937	Score	1133

Exons 1..1842, 2526..2558  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o3.tm	Method	TBLASTX:Maize
Start	1	End	399
GI	none	Score	183
Exons	1..252, 257..358, 262..387, 268..399		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o1.tw	Method	TBLASTX:Wheat
Start	280	End	678
GI	none	Score	292
Exons	280..678		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o1.tm	Method	TBLASTX:Maize
Start	511	End	1146
GI	none	Score	624
Exons	511..1146, 511..807, 648..1100, 859..1146		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o1.ts	Method	TBLASTX:Soybean
Start	532	End	918
GI	none	Score	352
Exons	532..918, 564..824		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o3.tw	Method	TBLASTX:Wheat
Start	766	End	1146
GI	none	Score	263
Exons	766..1146, 859..1029, 861..1145		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o2.tm	Method	TBLASTX:Maize
Start	1255	End	1745
GI	none	Score	259
Exons	1255..1587, 1263..1361, 1404..1508, 1588..1722, 1626..1745		

Seq. No.	37669	Seq. ID	OJ991029_01.0128.C4
Gene No.	77386	Strand	+
Start	1	End	2558
Name	OJ991029_01.0128.C4.o2.tw	Method	TBLASTX:Wheat
Start	1255	End	1623

GI	none	Score	263
Exons	1255..1623		
Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o1.np	Method	AAT/NAP
Start	1	End	2885
GI	6069646	Score	803
Exons	1..45, 832..1628, 1921..2885		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o1.gs	Method	GENSCAN
Start	47	End	1754
GI	none	Score	.44
Exons	47..715, 1147..1754		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o5.tm	Method	TBLASTX:Maize
Start	220	End	611
GI	none	Score	270
Exons	220..609, 360..611		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o2.tm	Method	TBLASTX:Maize
Start	678	End	1154
GI	none	Score	91
Exons	678..752, 679..795, 808..1086, 831..995, 1068..1154		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o1.tm	Method	TBLASTX:Maize
Start	1155	End	1854
GI	none	Score	403
Exons	1155..1316, 1164..1730, 1598..1726, 1739..1801, 1804..1854		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o3.np	Method	AAT/NAP
Start	1308	End	7115
GI	4680203	Score	1972
Exons	1308..1358, 3856..5512, 5672..5901, 6178..7115		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o4.tw	Method	TBLASTX:Wheat
Start	1494	End	1730
GI	none	Score	186
Exons	1494..1730, 1496..1678		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o2.gs	Method	GENSCAN
Start	3748	End	7089
GI	none	Score	.92
Exons	3748..3760, 3857..5332, 5363..6837, 6877..7089		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o3.tw	Method	TBLASTX:Wheat
Start	4216	End	4806
GI	none	Score	223
Exons	4216..4617, 4305..4505, 4635..4745, 4639..4761, 4648..4746, 4765..4806		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o1.ts	Method	TBLASTX:Soybean
Start	4288	End	4638
GI	none	Score	47
Exons	4288..4335, 4293..4343, 4341..4559, 4341..4604, 4342..4638		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o1.tc	Method	TBLASTX:Cress
Start	4639	End	4986
GI	none	Score	313
Exons	4639..4986, 4644..4706, 4737..4793, 4833..4985		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o4.ts	Method	TBLASTX:Soybean
Start	4642	End	4905
GI	none	Score	209
Exons	4642..4905, 4650..4892, 4663..4896		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o2.tw	Method	TBLASTX:Wheat
Start	4818	End	5235
GI	none	Score	106
Exons	4818..4925, 4828..4932, 4933..5034, 4938..5036, 4941..5036, 4986..5234, 5080..5235		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o3.tm	Method	TBLASTX:Maize
Start	4830	End	5274
GI	none	Score	222
Exons	4830..5057, 4831..5073, 5055..5258, 5080..5274, 5080..5271		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o3.ts	Method	TBLASTX:Soybean
Start	5109	End	5340
GI	none	Score	216
Exons	5109..5270, 5110..5340		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o6.tm	Method	TBLASTX:Maize
Start	5434	End	5649
GI	none	Score	229
Exons	5434..5634, 5458..5649, 5460..5648		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o5.tw	Method	TBLASTX:Wheat
Start	5454	End	5768
GI	none	Score	53
Exons	5454..5501, 5454..5570, 5455..5574, 5455..5571, 5575..5658, 5586..5627, 5685..5768		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o5.ts	Method	TBLASTX:Soybean
Start	5746	End	6129
GI	none	Score	79
Exons	5746..5874, 5884..6129, 6003..6128		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o1.tw	Method	TBLASTX:Wheat
Start	5785	End	7047
GI	none	Score	507
Exons	5785..6327, 5829..6308, 5932..6318, 6334..6534, 6387..6524, 6532..6672, 6546..6671, 6688..6738, 6695..6739, 6739..6792, 6810..6914, 6811..6915, 6916..7047		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o4.tm	Method	TBLASTX:Maize
Start	5827	End	6141

GI	none	Score	301
Exons	5827..6141, 5841..6122, 5914..6123		
Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o2.tc	Method	TBLASTX:Cress
Start	6072	End	6498
GI	none	Score	222
Exons	6072..6308, 6076..6312, 6334..6498, 6387..6494		

Seq. No.	37670	Seq. ID	OJ991029_01.0128.C5
Gene No.	77387	Strand	+
Start	1	End	7115
Name	OJ991029_01.0128.C5.o2.ts	Method	TBLASTX:Soybean
Start	6724	End	6972
GI	none	Score	216
Exons	6724..6972, 6738..6908		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77388	Strand	+
Start	837	End	7303
Name	OJ991029_01.0128.C6.o1.gs	Method	GENSCAN
Start	837	End	7303
GI	none	Score	.67
Exons	837..1414, 1876..2239, 2618..2731, 2783..3064, 3152..3757, 3918..4105, 4184..4354, 4437..4725, 7124..7303		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77389	Strand	-
Start	11208	End	13716
Name	OJ991029_01.0128.C6.o2.gs	Method	GENSCAN
Start	11208	End	13716
GI	none	Score	.58
Exons	11208..11477, 12944..13173, 13262..13460, 13564..13716		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77389	Strand	-
Start	11208	End	13716
Name	OJ991029_01.0128.C6.o1.np	Method	AAT/NAP
Start	11998	End	13716
GI	5042444	Score	399
Exons	11998..12029, 13200..13460, 13564..13716		

GI Descrip. (AC007789) putative low molecular early light-inducible protein [Oryza sativa]

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77390	Strand	-
Start	15045	End	17159
Name	OJ991029_01.0128.C6.o3.gs	Method	GENSCAN
Start	15045	End	17159
GI	none	Score	.49
Exons	15045..15080, 16941..17159		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371

Name	OJ991029_01.0128.C6.o2.np	Method	AAT/NAP
Start	17696	End	18371
GI	1173624	Score	701
Exons	17696..18371		
GI Descrip.	(U34744) cytochrome P-450 [Phalaenopsis sp. 'hybrid SM9108']		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.o4.gs	Method	GENSCAN
Start	17696	End	18292
GI	none	Score	.94
Exons	17696..18292		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.o1.tm	Method	TBLASTX:Maize
Start	17702	End	18343
GI	none	Score	65
Exons	17702..17932, 17727..17849, 17933..18178, 17933..18178, 18176..18343, 18177..18323		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.o1.ts	Method	TBLASTX:Soybean
Start	17702	End	18329
GI	none	Score	101
Exons	17702..17782, 17777..18040, 17921..18040, 18027..18329, 18035..18310		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.o1.gp	Method	AAT/GAP
Start	17748	End	18176
GI	18425_1.R1084	Score	817
Exons	17748..18176		
GI Descrip.	'1173624 3.0e-49 (U34744) cytochrome P-450 [Phalaenopsis sp. 'hybrid SM9108']'		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.o2.tw	Method	TBLASTX:Wheat
Start	17786	End	17923
GI	none	Score	185
Exons	17786..17923		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.o1.tc	Method	TBLASTX:Cress
Start	17792	End	18305
GI	none	Score	89
Exons	17792..18067, 18077..18295, 18078..18305		

Seq. No.	37671	Seq. ID	OJ991029_01.0128.C6
Gene No.	77391	Strand	-
Start	17696	End	18371
Name	OJ991029_01.0128.C6.ol.tw	Method	TBLASTX:Wheat
Start	17993	End	18328
GI	none	Score	48
Exons	17993..18052, 17994..18053, 18074..18163, 18077..18328, 18084..18326		

Seq. No.	37672	Seq. ID	OJ991029_01.0128.C7
Gene No.	77392	Strand	-
Start	1	End	410
Name	OJ991029_01.0128.C7.ol.np	Method	AAT/NAP
Start	1	End	410
GI	3831440	Score	115
Exons	1..410		
GI Descrip.	(AC005819) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37672	Seq. ID	OJ991029_01.0128.C7
Gene No.	77392	Strand	-
Start	1	End	410
Name	OJ991029_01.0128.C7.ol.tm	Method	TBLASTX:Maize
Start	3	End	279
GI	none	Score	137
Exons	3..164, 7..162, 240..272, 241..279		

Seq. No.	37672	Seq. ID	OJ991029_01.0128.C7
Gene No.	77392	Strand	-
Start	1	End	410
Name	OJ991029_01.0128.C7.ol.gs	Method	GENSCAN
Start	17	End	164
GI	none	Score	.99
Exons	17..164		

Seq. No.	37673	Seq. ID	OJ991029_01.0128.C8
Gene No.	77393	Strand	-
Start	352	End	4594
Name	OJ991029_01.0128.C8.ol.gs	Method	GENSCAN
Start	352	End	4475
GI	none	Score	.72
Exons	352..555, 796..887, 1525..1599, 1665..1761, 1922..2009, 2665..2939, 4151..4330, 4374..4475		

Seq. No.	37673	Seq. ID	OJ991029_01.0128.C8
Gene No.	77393	Strand	-
Start	352	End	4594
Name	OJ991029_01.0128.C8.ol.gp	Method	AAT/GAP
Start	1632	End	2961
GI	15664_1.R1084	Score	1272
Exons	1632..2009, 2665..2961		
GI Descrip.	'4680212/gb AAD27575.1 AF114171_17 5.0e-10 (AF114171) hypothetical protein [Sorghum bicolor]'		

Seq. No.	37673	Seq. ID	OJ991029_01.0128.C8
Gene No.	77393	Strand	-
Start	352	End	4594



Name	OJ991029_01.0128.C8.o1.np	Method	AAT/NAP
Start	1923	End	4594
GI	4680212	Score	251
Exons	1923..2009, 2665..2949, 4570..4594		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	37673	Seq. ID	OJ991029_01.0128.C8
Gene No.	77393	Strand	-
Start	352	End	4594
Name	OJ991029_01.0128.C8.o1.tm	Method	TBLASTX:Maize
Start	1951	End	2949
GI	none	Score	64
Exons	1951..2010, 1952..2011, 2641..2712, 2755..2784, 2869..2949		

Seq. No.	37674	Seq. ID	OJ991029_01.0128.C9
Gene No.	77394	Strand	+
Start	67	End	1004
Name	OJ991029_01.0128.C9.o1.gs	Method	GENSCAN
Start	67	End	1004
GI	none	Score	.73
Exons	67..135, 535..650, 944..1004		

Seq. No.	37674	Seq. ID	OJ991029_01.0128.C9
Gene No.	77395	Strand	+
Start	1886	End	2877
Name	OJ991029_01.0128.C9.o1.np	Method	AAT/NAP
Start	1886	End	2877
GI	5852084	Score	86
Exons	1886..2078, 2628..2877		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	37675	Seq. ID	OJ991029_01.0128.C10
Gene No.	77396	Strand	+
Start	1435	End	3145
Name	OJ991029_01.0128.C10.o1.gs	Method	GENSCAN
Start	1435	End	3145
GI	none	Score	.41
Exons	1435..1559, 2271..2393, 2715..2925, 3129..3145		

Seq. No.	37675	Seq. ID	OJ991029_01.0128.C10
Gene No.	77397	Strand	-
Start	4069	End	11964
Name	OJ991029_01.0128.C10.o2.gs	Method	GENSCAN
Start	4069	End	11964
GI	none	Score	.64
Exons	4069..4376, 4829..4853, 5698..5781, 6001..6328, 9426..9604, 10335..10421, 10978..11142, 11384..11525, 11705..11964		

Seq. No.	37675	Seq. ID	OJ991029_01.0128.C10
Gene No.	77397	Strand	-
Start	4069	End	11964
Name	OJ991029_01.0128.C10.o1.np	Method	AAT/NAP
Start	6966	End	11925
GI	6815097	Score	414
Exons	6966..7006, 11104..11925		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	37675	Seq. ID	OJ991029_01.0128.C10
Gene No.	77398	Strand	-
Start	12452	End	12961
Name	OJ991029_01.0128.C10.o3.gs	Method	GENSCAN
Start	12452	End	12961
GI	none	Score	.95
Exons	12452..12961		

Seq. No.	37676	Seq. ID	OJ991029_01.0128.C11
Gene No.	77399	Strand	+
Start	1	End	4809
Name	OJ991029_01.0128.C11.o1.np	Method	AAT/NAP
Start	1	End	111
GI	6721516	Score	71
Exons	1..111		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37676	Seq. ID	OJ991029_01.0128.C11
Gene No.	77399	Strand	+
Start	1	End	4809
Name	OJ991029_01.0128.C11.o1.gs	Method	GENSCAN
Start	9	End	4809
GI	none	Score	.4
Exons	9..101, 389..519, 1061..1296, 4101..4326, 4401..4554, 4760..4809		

Seq. No.	37676	Seq. ID	OJ991029_01.0128.C11
Gene No.	77400	Strand	-
Start	4676	End	4759
Name	OJ991029_01.0128.C11.o2.gp	Method	AAT/GAP
Start	4676	End	4759
GI	uC-osflM202097d10b1	Score	110
Exons	4676..4759		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77401	Strand	+
Start	1768	End	4549
Name	OJ991029_01.0128.C12.o1.gs	Method	GENSCAN
Start	1768	End	4266
GI	none	Score	.96
Exons	1768..1952, 2061..2196, 3334..3763, 4205..4266		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77401	Strand	+
Start	1768	End	4549
Name	OJ991029_01.0128.C12.o1.np	Method	AAT/NAP
Start	1801	End	4549
GI	6553917	Score	411
Exons	1801..1952, 2061..2196, 3334..3800, 4516..4549		
GI Descrip.	(AC012329) putative 6-phosphogluconolactonase [Arabidopsis thaliana] gi 6723406 emb CAB66415.1  (AL132956) 6-phosphogluconolactonase-like protein [Arabidopsis thaliana]		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77402	Strand	-

Start	3717	End	4106
Name	OJ991029_01.0128.C12.o1.gp	Method	AAT/GAP
Start	3717	End	4106
GI	none	Score	768
Exons	3717..4106		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o1.tm	Method	TBLASTX:Maize
Start	1765	End	3828
GI	none	Score	258
Exons	1765..1866, 1767..1961, 1768..1950, 2052..2198, 2061..2198, 2062..2199, 3331..3726, 3333..3728, 3333..3728, 3334..3732, 3716..3787, 3729..3827, 3729..3815, 3730..3828		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o2.ts	Method	TBLASTX:Soybean
Start	1801	End	2201
GI	none	Score	164
Exons	1801..1950, 1848..1955, 2036..2197, 2045..2197, 2053..2199, 2055..2201, 2055..2201		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o2.tc	Method	TBLASTX:Cress
Start	1819	End	2200
GI	none	Score	106
Exons	1819..1950, 1845..1955, 2059..2196, 2061..2198, 2062..2199, 2099..2200		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o1.tw	Method	TBLASTX:Wheat
Start	1843	End	3618
GI	none	Score	65
Exons	1843..1953, 1845..1940, 2058..2198, 2059..2199, 3331..3615, 3334..3618, 3423..3617		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o1.tc	Method	TBLASTX:Cress
Start	3334	End	3687
GI	none	Score	271
Exons	3334..3387, 3385..3687, 3468..3647		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o1.ts	Method	TBLASTX:Soybean
Start	3478	End	3825
GI	none	Score	284

Exons 3478..3705, 3478..3693, 3480..3704, 3711..3824, 3715..3825

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o2.np	Method	AAT/NAP
Start	5233	End	7322
GI	4914404	Score	121
Exons	5233..5472, 7277..7322		
GI Descrip.	(AL050352) putative protein [Arabidopsis thaliana]		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o2.tm	Method	TBLASTX:Maize
Start	5707	End	6093
GI	none	Score	45
Exons	5707..5769, 5877..5993, 5907..5963, 5915..5998, 6023..6091, 6037..6093		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o3.np	Method	AAT/NAP
Start	5861	End	6319
GI	2342685	Score	236
Exons	5861..6112, 6206..6319		
GI Descrip.	(AC000106) Contains similarity to Rhodococcus amidase (gb D16207). ESTs gb T20504,gb H36650,gb N97423,gb H36595 come from this gene. [Arabidopsis thaliana]		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o3.tc	Method	TBLASTX:Cress
Start	5877	End	6238
GI	none	Score	97
Exons	5877..5993, 5918..5998, 6026..6115, 6037..6105, 6188..6238, 6205..6231		

Seq. No.	37677	Seq. ID	OJ991029_01.0128.C12
Gene No.	77403	Strand	-
Start	5233	End	7322
Name	OJ991029_01.0128.C12.o2.gp	Method	AAT/GAP
Start	5908	End	6181
GI	4878716	Score	495
Exons	5908..6181		

Seq. No.	37678	Seq. ID	OJ991029_01.0128.C13
Gene No.	77404	Strand	+
Start	1902	End	3821
Name	OJ991029_01.0128.C13.o1.np	Method	AAT/NAP
Start	1902	End	3821
GI	5295955	Score	244
Exons	1902..2041, 2775..3821		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	37678	Seq. ID	OJ991029_01.0128.C13
Gene No.	77405	Strand	-
Start	2753	End	3886
Name	OJ991029_01.0128.C13.o2.gs	Method	GENSCAN
Start	2753	End	3886
GI	none	Score	.66
Exons	2753..2881, 3168..3311, 3391..3666, 3711..3886		
Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77406	Strand	+
Start	4342	End	4450
Name	OJ991029_01.0128.C14.o1.gp	Method	AAT/GAP
Start	4342	End	4450
GI	uC-osflcyp088b12b1	Score	158
Exons	4342..4450		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77407	Strand	+
Start	12735	End	16027
Name	OJ991029_01.0128.C14.o2.gs	Method	GENSCAN
Start	12735	End	16007
GI	none	Score	.68
Exons	12735..12816, 14081..14160, 14608..15067, 15138..15291, 15615..15652, 15735..15860, 15958..16007		
Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77407	Strand	+
Start	12735	End	16027
Name	OJ991029_01.0128.C14.o1.np	Method	AAT/NAP
Start	14002	End	16027
GI	6041808	Score	1553
Exons	14002..14160, 14608..15067, 15138..15291, 15375..15652, 15735..16027		
GI Descrip.	(AC009755) unknown protein [Arabidopsis thaliana]		
Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77408	Strand	+
Start	16381	End	16957
Name	OJ991029_01.0128.C14.o2.gp	Method	AAT/GAP
Start	16381	End	16957
GI	39157 1.R1084	Score	974
Exons	16381..16957		
GI Descrip.	'6041808/gb AAF02128.1 AC009755_21 2.0e-27 (AC009755) unknown protein [Arabidopsis thaliana]'		
Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77409	Strand	+
Start	19634	End	20092
Name	OJ991029_01.0128.C14.o4.gs	Method	GENSCAN
Start	19634	End	20092
GI	none	Score	.44
Exons	19634..20092		
Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14

Gene No.	77410	Strand	+
Start	20981	End	21343
Name	OJ991029_01.0128.C14.o5.gs	Method	GENSCAN
Start	20981	End	21343
GI	none	Score	.62
Exons	20981..21029, 21141..21343		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77411	Strand	-
Start	702	End	7783
Name	OJ991029_01.0128.C14.o1.gs	Method	GENSCAN
Start	702	End	7783
GI	none	Score	.44
Exons	702..943, 1364..1529, 1576..1718, 2385..2540, 2718..2817, 3026..3109, 3365..3483, 4060..4123, 4244..4335, 6704..6791, 7700..7783		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77412	Strand	-
Start	16646	End	18842
Name	OJ991029_01.0128.C14.o3.gs	Method	GENSCAN
Start	16646	End	18842
GI	none	Score	.88
Exons	16646..16932, 17039..18097, 18192..18279, 18492..18626, 18693..18842		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77412	Strand	-
Start	16646	End	18842
Name	OJ991029_01.0128.C14.o2.np	Method	AAT/NAP
Start	16647	End	18195
GI	6041808	Score	1478
Exons	16647..16932, 17039..17324, 17412..18195		
GI Descrip.	(AC009755) unknown protein [Arabidopsis thaliana]		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77412	Strand	-
Start	16646	End	18842
Name	OJ991029_01.0128.C14.o3.gp	Method	AAT/GAP
Start	17182	End	17643
GI	uC-osflcyp033g03b1	Score	896
Exons	17182..17643		
GI Descrip.	3559805/emb CAA07251  9.0e-20 (AJ006787) putative phytochelatin synthetase [Arabidopsis thaliana]		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77412	Strand	-
Start	16646	End	18842
Name	OJ991029_01.0128.C14.o4.gp	Method	AAT/GAP
Start	17842	End	18338
GI	uC-osflcyp172h09b1	Score	755
Exons	17842..18097, 18192..18338		
GI Descrip.	'6041808/gb AAF02128.1 AC009755_21 6.0e-27 (AC009755) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-

Start	22522	End	36351
Name	OJ991029_01.0128.C14.o1.ts	Method	TBLASTX:Soybean
Start	14073	End	18099
GI	none	Score	149
Exons	14073..14159, 14074..14160, 14074..14160, 14607..14963, 14607..15053, 14608..15018, 15007..15063, 15137..15283, 15139..15270, 15379..15657, 15384..15464, 15433..15657, 17040..17324, 17047..17259, 17440..18099, 17445..18095		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o1.tm	Method	TBLASTX:Maize
Start	14074	End	18105
GI	none	Score	146
Exons	14074..14160, 14079..14159, 14607..15053, 14608..15054, 15132..15287, 15137..15289, 15139..15288, 15379..15645, 15381..15467, 15398..15511, 15442..15627, 15522..15644, 15732..15911, 15734..15949, 15734..15934, 15736..15939, 16703..16933, 16770..16931, 17032..17265, 17046..17330, 17440..17571, 17445..18095, 17620..18105		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o1.tc	Method	TBLASTX:Cress
Start	14644	End	17982
GI	none	Score	538
Exons	14644..15018, 14644..14877, 14655..15053, 15019..15063, 15137..15283, 15139..15270, 15379..15420, 15427..15690, 15436..15645, 15734..15940, 15736..15939, 16724..16966, 16770..16931, 17040..17258, 17050..17271, 17437..17568, 17445..17978, 17614..17982		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o1.tw	Method	TBLASTX:Wheat
Start	15206	End	17489
GI	none	Score	112
Exons	15206..15268, 15208..15270, 15248..15289, 15378..15467, 15379..15567, 15380..15511, 15433..15567, 17125..17166, 17127..17171, 17127..17324, 17134..17265, 17445..17489		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o2.ts	Method	TBLASTX:Soybean
Start	15731	End	16939
GI	none	Score	339
Exons	15731..15940, 15732..15938, 15733..15939, 16721..16939, 16758..16934		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o2.tm	Method	TBLASTX:Maize

Start	19716	End	25256
GI	none	Score	117
Exons	19716..19775, 19733..19777, 19741..19836, 19742..19834, 19808..19948, 19819..19926, 19916..19963, 19919..20011, 19921..20010, 25191..25256		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o3.np	Method	AAT/NAP
Start	22383	End	30650
GI	4056494	Score	191
Exons	22383..22491, 30040..30650		
GI Descrip.	(AC005896) putative protein translocase [Arabidopsis thaliana]		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o6.gs	Method	GENSCAN
Start	22522	End	23338
GI	none	Score	.91
Exons	22522..22544, 23266..23338		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o7.gs	Method	GENSCAN
Start	24652	End	27659
GI	none	Score	.77
Exons	24652..25245, 27582..27659		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o8.gs	Method	GENSCAN
Start	29186	End	36351
GI	none	Score	.44
Exons	29186..29834, 30078..30551, 30586..30773, 35783..35897, 35972..36225, 36346..36351		

Seq. No.	37679	Seq. ID	OJ991029_01.0128.C14
Gene No.	77413	Strand	-
Start	22522	End	36351
Name	OJ991029_01.0128.C14.o4.np	Method	AAT/NAP
Start	30253	End	30650
GI	4056494	Score	181
Exons	30253..30650		
GI Descrip.	(AC005896) putative protein translocase [Arabidopsis thaliana]		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77414	Strand	+
Start	4358	End	4936
Name	OJ991029_01.0128.C15.o1.gs	Method	GENSCAN
Start	4358	End	4936
GI	none	Score	.4
Exons	4358..4936		



Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77415	Strand	-
Start	3112	End	4934
Name	OJ991029_01.0128.C15.o1.np	Method	AAT/NAP
Start	3112	End	4843
GI	4056494	Score	469
Exons	3112..3129, 4423..4843		
GI Descrip.	(AC005896) putative protein translocase [Arabidopsis thaliana]		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77415	Strand	-
Start	3112	End	4934
Name	OJ991029_01.0128.C15.o1.gp	Method	AAT/GAP
Start	4552	End	4934
GI	none	Score	687
Exons	4552..4934		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77416	Strand	-
Start	5836	End	5924
Name	OJ991029_01.0128.C15.o1.tm	Method	TBLASTX:Maize
Start	4204	End	4825
GI	none	Score	69
Exons	4204..4281, 4214..4279, 4425..4817, 4517..4825		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77416	Strand	-
Start	5836	End	5924
Name	OJ991029_01.0128.C15.o1.ts	Method	TBLASTX:Soybean
Start	4440	End	4825
GI	none	Score	353
Exons	4440..4745, 4517..4825, 4788..4817		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77416	Strand	-
Start	5836	End	5924
Name	OJ991029_01.0128.C15.o1.tc	Method	TBLASTX:Cress
Start	4527	End	4825
GI	none	Score	213
Exons	4527..4745, 4535..4825		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77416	Strand	-
Start	5836	End	5924
Name	OJ991029_01.0128.C15.o1.tw	Method	TBLASTX:Wheat
Start	4568	End	4825
GI	none	Score	288
Exons	4568..4825, 4569..4817		

Seq. No.	37680	Seq. ID	OJ991029_01.0128.C15
Gene No.	77416	Strand	-
Start	5836	End	5924
Name	OJ991029_01.0128.C15.o2.np	Method	AAT/NAP
Start	5836	End	5924
GI	6721547	Score	81
Exons	5836..5924		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o1.gs	Method	GENSCAN
Start	314	End	5638
GI	none	Score	.4
Exons	314..951, 978..1047, 3101..3220, 3291..3715, 3931..3973, 4418..4569, 4759..4909, 5075..5638		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o1.gp	Method	AAT/GAP
Start	4235	End	5012
GI	5002953	Score	478
Exons	4235..4417, 4897..5012		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o2.np	Method	AAT/NAP
Start	4349	End	6925
GI	4680203	Score	1535
Exons	4349..5290, 5567..5797, 5951..6042, 6086..6925		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o1.tw	Method	TBLASTX:Wheat
Start	4460	End	5680
GI	none	Score	66
Exons	4460..4552, 4553..4657, 4581..4658, 4682..4720, 4685..4723, 4727..4774, 4763..4954, 4779..4919, 4958..5119, 4962..5102, 5138..5680, 5190..5636		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o2.tc	Method	TBLASTX:Cress
Start	4967	End	5393
GI	none	Score	72
Exons	4967..5119, 4980..5102, 5138..5389, 5190..5393		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o1.tm	Method	TBLASTX:Maize
Start	5291	End	5776
GI	none	Score	89
Exons	5291..5776, 5298..5447, 5583..5759		

Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-

Start	314	End	6925
Name	OJ991029_03.0127.C1.o3.tw	Method	TBLASTX:Wheat
Start	5684	End	6040
GI	none	Score	66
Exons	5684..5767, 5685..5768, 5804..6040, 5805..6005		
Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o2.ts	Method	TBLASTX:Soybean
Start	6174	End	6406
GI	none	Score	82
Exons	6174..6332, 6353..6406		
Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o2.tm	Method	TBLASTX:Maize
Start	6243	End	6685
GI	none	Score	70
Exons	6243..6341, 6356..6436, 6440..6685, 6444..6635		
Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o2.gs	Method	GENSCAN
Start	6326	End	6820
GI	none	Score	.52
Exons	6326..6820		
Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o2.tw	Method	TBLASTX:Wheat
Start	6443	End	6757
GI	none	Score	192
Exons	6443..6757, 6444..6689		
Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o1.tc	Method	TBLASTX:Cress
Start	6530	End	6860
GI	none	Score	61
Exons	6530..6859, 6531..6605, 6630..6686, 6723..6860		
Seq. No.	37681	Seq. ID	OJ991029_03.0127.C1
Gene No.	77417	Strand	-
Start	314	End	6925
Name	OJ991029_03.0127.C1.o1.ts	Method	TBLASTX:Soybean
Start	6608	End	6853
GI	none	Score	213
Exons	6608..6853		
Seq. No.	37682	Seq. ID	OJ991029_03.0127.C2
Gene No.	77418	Strand	+
Start	568	End	799

Name	OJ991029_03.0127.C2.o1.gs	Method	GENSCAN
Start	568	End	799
GI	none	Score	.84
Exons	568..799		

Seq. No.	37682	Seq. ID	OJ991029_03.0127.C2
Gene No.	77419	Strand	+
Start	1921	End	1996
Name	OJ991029_03.0127.C2.o1.gp	Method	AAT/GAP
Start	1921	End	1996
GI	none	Score	144
Exons	1921..1996		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77420	Strand	+
Start	1	End	93
Name	OJ991029_03.0127.C3.o1.gp	Method	AAT/GAP
Start	1	End	93
GI	none	Score	186
Exons	1..93		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77421	Strand	+
Start	4334	End	8563
Name	OJ991029_03.0127.C3.o2.gs	Method	GENSCAN
Start	4334	End	8563
GI	none	Score	.46
Exons	4334..5365, 7880..8023, 8198..8245, 8285..8563		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77421	Strand	+
Start	4334	End	8563
Name	OJ991029_03.0127.C3.o3.gp	Method	AAT/GAP
Start	4396	End	4892
GI	none	Score	865
Exons	4396..4892		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77422	Strand	+
Start	10614	End	13130
Name	OJ991029_03.0127.C3.o2.np	Method	AAT/NAP
Start	10614	End	13130
GI	6505722	Score	211
Exons	10614..10711, 11681..12469, 12569..12674, 12776..13130		

GI Descrip. (AB032123) ribosomal RNA apurinic site specific lyase [Triticum aestivum]. gi|6513849|dbj|BAA87876.1| (AB032124) ribosomal RNA apurinic site specific lyase [Triticum aestivum]

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77423	Strand	-
Start	1	End	2336
Name	OJ991029_03.0127.C3.o1.np	Method	AAT/NAP
Start	1	End	2101
GI	6634727	Score	75
Exons	1..143, 1872..2101		
GI Descrip.	(AC012463) T2E6.12 [Arabidopsis thaliana]		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77423	Strand	-
Start	1	End	2336
Name	OJ991029_03.0127.C3.o2.gp	Method	AAT/GAP
Start	1773	End	2336
GI	none	Score	902
Exons	1773..2106, 2196..2336		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77424	Strand	-
Start	17027	End	18151
Name	OJ991029_03.0127.C3.o1.tm	Method	TBLASTX:Maize
Start	1894	End	11791
GI	none	Score	65
Exons	1894..1986, 1954..2034, 4367..4576, 4381..4578, 11682..11789, 11696..11791		

Seq. No.	37683	Seq. ID	OJ991029_03.0127.C3
Gene No.	77424	Strand	-
Start	17027	End	18151
Name	OJ991029_03.0127.C3.o4.gs	Method	GENSCAN
Start	17027	End	18151
GI	none	Score	7
Exons	17027..18151		

Seq. No.	37684	Seq. ID	OJ991029_03.0127.C4
Gene No.	77425	Strand	+
Start	1	End	9135
Name	OJ991029_03.0127.C4.o1.np	Method	AAT/NAP
Start	1	End	9135
GI	2586082	Score	226
Exons	1..210, 6971..7483, 9041..9135		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77426	Strand	+
Start	8204	End	18042
Name	OJ991029_03.0127.C5.o6.np	Method	AAT/NAP
Start	8204	End	18042
GI	5852180	Score	373
Exons	8204..8227, 11646..11689, 12668..13170, 17945..18042		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77426	Strand	+
Start	8204	End	18042
Name	OJ991029_03.0127.C5.o2.gp	Method	AAT/GAP
Start	14856	End	15198
GI	1632433	Score	623
Exons	14856..15198		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77426	Strand	+
Start	8204	End	18042
Name	OJ991029_03.0127.C5.o5.gs	Method	GENSCAN
Start	14919	End	15284
GI	none	Score	.99

Exons 14919..15284

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77427	Strand	+
Start	28644	End	28753
Name	OJ991029_03.0127.C5.o4.gp	Method	AAT/GAP
Start	28644	End	28753
GI	uC-osflcyp088b12b1	Score	145
Exons	28644..28753		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77428	Strand	+
Start	29239	End	33871
Name	OJ991029_03.0127.C5.o8.np	Method	AAT/NAP
Start	29239	End	33871
GI	5922636	Score	461
Exons	29239..29305, 29804..30048, 30307..30440, 33850..33871		
GI Descrip.	(AP000492) ESTs C99517(E20319), AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016869 dbj BAA85212.1  (AP000570) ESTs C99517(E20319), AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77428	Strand	+
Start	29239	End	33871
Name	OJ991029_03.0127.C5.o9.np	Method	AAT/NAP
Start	33380	End	33792
GI	5091610	Score	464
Exons	33380..33792		
GI Descrip.	(AC007858) 10A19I.15 [Oryza sativa]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77429	Strand	+
Start	37980	End	41042
Name	OJ991029_03.0127.C5.o9.gs	Method	GENSCAN
Start	37980	End	41042
GI	none	Score	.54
Exons	37980..38354, 38517..38698, 40970..41042		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o1.gs	Method	GENSCAN
Start	45	End	2723
GI	none	Score	.75
Exons	45..248, 1260..1499, 1552..2145, 2212..2364, 2427..2723		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o1.np	Method	AAT/NAP
Start	309	End	2708
GI	629669	Score	565
Exons	309..388, 1252..2130, 2213..2708		

GI Descrip. hypothetical protein - tomato

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o3.np	Method	AAT/NAP
Start	2390	End	9144
GI	6692688	Score	183
Exons	2390..2454, 4357..4628, 6599..6630, 9083..9144		
GI Descrip.	(AC007592) F12K11.17 [Arabidopsis thaliana]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o2.gs	Method	GENSCAN
Start	3848	End	8085
GI	none	Score	.6
Exons	3848..3922, 3945..4062, 4120..4310, 5287..5459, 6166..6191, 6512..6550, 6823..6875, 8023..8085		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o1.gp	Method	AAT/GAP
Start	5299	End	8303
GI	17720_1.R1084	Score	981
Exons	5299..5572, 6122..6191, 6512..6550, 6823..6875, 8023..8097, 8228..8303		
GI Descrip.	'5107180/gb AAD40002.1 AF150096_1 2.0e-28 (AF150096) small zinc finger-like protein [Lycopersicon esculentum]'		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o4.np	Method	AAT/NAP
Start	5528	End	8078
GI	3980383	Score	162
Exons	5528..5572, 6122..6191, 6512..6550, 6823..6875, 8044..8078		
GI Descrip.	(AC004561) unknown protein [Arabidopsis thaliana] gi 5107174 gb AAD39999.1 AF150093_1 (AF150093) small zinc finger-like protein [Arabidopsis thaliana]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o5.np	Method	AAT/NAP
Start	8453	End	10517
GI	6539556	Score	258
Exons	8453..8492, 10061..10517		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa] gi 6539593 dbj BAA88209.1  (AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77430	Strand	-
Start	45	End	10517
Name	OJ991029_03.0127.C5.o3.gs	Method	GENSCAN

Start 10103  
GI none  
Exons 10103..10366

End 10366  
Score .96

Seq. No. 37685  
Gene No. 77431  
Start 12358  
Name OJ991029\_03.0127.C5.o4.gs  
Start 12358  
GI none  
Exons 12358..12443, 12645..12846, 12916..13290

Seq. ID OJ991029\_03.0127.C5  
Strand -  
End 13290  
Method GENSCAN  
End 13290  
Score .76

Seq. No. 37685  
Gene No. 77432  
Start 16959  
Name OJ991029\_03.0127.C5.o6.gs  
Start 16959  
GI none  
Exons 16959..17060, 17564..17624, 17698..17804, 18433..18497, 18615..18648, 19027..19099, 19443..19555, 20539..20631, 20747..20920, 21111..21254, 21380..21554, 22685..22852, 23258..23672, 23687..24002, 24063..24364, 26160..26276, 26305..27130

Seq. ID OJ991029\_03.0127.C5  
Strand -  
End 27130  
Method GENSCAN  
End 27130  
Score .48

Seq. No. 37685  
Gene No. 77432  
Start 16959  
Name OJ991029\_03.0127.C5.o7.np  
Start 16962  
GI 2642640  
Exons 16962..17060, 17564..17624, 17698..17804, 18433..18537, 18615..18701, 18786..18866, 19027..19099, 19443..19555, 19850..19943, 20215..20270, 20367..20450, 20539..20631, 20747..20920, 21111..21204, 21512..21633

Seq. ID OJ991029\_03.0127.C5  
Strand -  
End 27130  
Method AAT/NAP  
End 21633  
Score 1316

GI Descrip. (AF032473) ADP-glucose pyrophosphorylase large subunit 2 [Citrullus lanatus]

Seq. No. 37685  
Gene No. 77432  
Start 16959  
Name OJ991029\_03.0127.C5.o3.gp  
Start 20773  
GI uC-osf1M202097c09b1  
Exons 20773..20920, 21111..21254, 21380..21577

Seq. ID OJ991029\_03.0127.C5  
Strand -  
End 27130  
Method AAT/GAP  
End 21577  
Score 892

GI Descrip. 1707922/sp|P55233|GLGI\_BETVU 2.0e-26 GLUCOSE-1-PHOSPHATE ADENYLYLTRANSFERASE LARGE SUBUNIT PRECURSOR (ADP-GLUCOSE SYNTHASE) (ADP-GLUCOSE PYROPHOSPHORYLASE) (AGPASE S) (ALPHA-D-GLUCOSE-1-PHOSPHATE ADENYL TRANSFERASE)  
>gi\_1076255\_pir\_S51944 glucose-1-phosphate adenylyltransferase (EC 2.7.7.27) large chain S1 precursor - beet  
>gi\_556624\_emb\_CAA55516\_ (X78900) glucose-1-phosphate'

Seq. No. 37685  
Gene No. 77433  
Start 31346  
Name OJ991029\_03.0127.C5.o10.np  
Start 31346

Seq. ID OJ991029\_03.0127.C5  
Strand -  
End 37548  
Method AAT/NAP  
End 37548



GI 2586082 Score 2295  
 Exons 31346..31422, 34274..36312, 37470..37548  
 GI Descrip. (U72725) retrofit [Oryza longistaminata]

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77433 Strand -  
 Start 31346 End 37548  
 Name OJ991029\_03.0127.C5.o8.gs Method GENSCAN  
 Start 35298 End 36079  
 GI none Score .89  
 Exons 35298..35326, 35500..36079

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77434 Strand -  
 Start 41637 End 42236  
 Name OJ991029\_03.0127.C5.o2.tm Method TBLASTX:Maize  
 Start 1245 End 1849  
 GI none Score 128  
 Exons 1245..1592, 1465..1593, 1675..1848, 1676..1849

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77434 Strand -  
 Start 41637 End 42236  
 Name OJ991029\_03.0127.C5.o1.ts Method TBLASTX:Soybean  
 Start 1266 End 1866  
 GI none Score 126  
 Exons 1266..1592, 1273..1584, 1696..1866, 1697..1852

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77434 Strand -  
 Start 41637 End 42236  
 Name OJ991029\_03.0127.C5.o2.tc Method TBLASTX:Cress  
 Start 1290 End 2699  
 GI none Score 121  
 Exons 1290..1592, 1366..1584, 1652..1822, 1696..1866, 2436..2561, 2583..2699

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77434 Strand -  
 Start 41637 End 42236  
 Name OJ991029\_03.0127.C5.o2.tw Method TBLASTX:Wheat  
 Start 1443 End 38449  
 GI none Score 172  
 Exons 1443..1592, 1450..1593, 1462..1593, 1610..1690, 1675..1848, 1703..1840, 38317..38442, 38333..38449

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77434 Strand -  
 Start 41637 End 42236  
 Name OJ991029\_03.0127.C5.o6.tm Method TBLASTX:Maize  
 Start 1909 End 2395  
 GI none Score 131  
 Exons 1909..2160, 1909..2148, 2227..2274, 2228..2275, 2359..2394, 2360..2395

Seq. No. 37685 Seq. ID OJ991029\_03.0127.C5  
 Gene No. 77434 Strand -

Start	41637	End	42236
Name	OJ991029_03.0127.C5.o7.tm	Method	TBLASTX:Maize
Start	2445	End	2700
GI	none	Score	60
Exons	2445..2498, 2449..2499, 2509..2589, 2523..2696, 2644..2700		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o4.tc	Method	TBLASTX:Cress
Start	4358	End	4671
GI	none	Score	90
Exons	4358..4411, 4431..4622, 4432..4671		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o8.tm	Method	TBLASTX:Maize
Start	4358	End	4664
GI	none	Score	166
Exons	4358..4426, 4431..4664		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o4.ts	Method	TBLASTX:Soybean
Start	4358	End	4623
GI	none	Score	39
Exons	4358..4426, 4362..4421, 4431..4622, 4447..4623		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o2.ts	Method	TBLASTX:Soybean
Start	16948	End	20596
GI	none	Score	88
Exons	16948..17058, 16959..17057, 17567..17626, 17571..17627, 17694..17804, 17698..17805, 18433..18540, 18437..18526, 18612..18698, 18616..18699, 18786..18869, 18790..18861, 18797..18868, 19021..19086, 19463..19567, 19850..19945, 19851..19946, 20215..20274, 20217..20276, 20219..20278, 20367..20429, 20367..20456, 20371..20451, 20537..20596, 20539..20595		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o1.tm	Method	TBLASTX:Maize
Start	16950	End	21209
GI	none	Score	92
Exons	16950..17063, 16951..17058, 17564..17623, 17587..17634, 17698..17802, 17700..17804, 18433..18540, 18607..18699, 18609..18698, 18618..18704, 18786..18848, 18786..18869, 18790..18870, 19021..19101, 19850..19945, 20215..20283, 20217..20279, 20358..20456, 20367..20438, 20537..20587, 20539..20589, 20599..20631, 20745..20783, 20781..20912, 20789..20920, 20789..20920, 21108..21209, 21109..21186		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o1.tc	Method	TBLASTX:Cress
Start	16959	End	21194
GI	none	Score	46
Exons	16959..17063, 17556..17621, 17557..17610, 17564..17626, 17568..17618, 17675..17806, 17697..17804, 17701..17808, 17701..17805, 18433..18540, 18604..18687, 18612..18692, 18771..18866, 18790..18867, 19021..19101, 19440..19553, 19832..19942, 19851..19946, 20214..20276, 20215..20274, 20367..20453, 20367..20456, 20537..20632, 20539..20631, 20745..20771, 20786..20920, 21108..21194, 21109..21189		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o5.ts	Method	TBLASTX:Soybean
Start	20781	End	21194
GI	none	Score	71
Exons	20781..20912, 20786..20920, 20787..20921, 21108..21194, 21109..21189		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o3.tm	Method	TBLASTX:Maize
Start	32814	End	33308
GI	none	Score	103
Exons	32814..32909, 32815..32907, 32898..32996, 32899..32997, 32899..32994, 32936..32995, 32997..33047, 33065..33103, 33066..33140, 33095..33139, 33099..33149, 33139..33261, 33139..33255, 33282..33308		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o5.tc	Method	TBLASTX:Cress
Start	34389	End	34743
GI	none	Score	82
Exons	34389..34589, 34624..34743		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o9.tm	Method	TBLASTX:Maize
Start	35282	End	35584
GI	none	Score	212
Exons	35282..35584		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o1.tw	Method	TBLASTX:Wheat
Start	35289	End	35659
GI	none	Score	107

Exons 35289..35522, 35291..35659, 35586..35621

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o5.tm	Method	TBLASTX:Maize
Start	36038	End	36311
GI	none	Score	69
Exons	36038..36307, 36074..36304, 36087..36311		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o10.gs	Method	GENSCAN
Start	41637	End	42167
GI	none	Score	1
Exons	41637..42167		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o3.tc	Method	TBLASTX:Cress
Start	41637	End	41969
GI	none	Score	74
Exons	41637..41702, 41727..41894, 41886..41969		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o3.ts	Method	TBLASTX:Soybean
Start	41637	End	42050
GI	none	Score	50
Exons	41637..41693, 41637..41711, 41689..41886, 41706..41888, 41860..41949, 41898..41969, 41899..41937, 41937..41999, 42009..42050, 42010..42048		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o11.np	Method	AAT/NAP
Start	41640	End	42149
GI	130940	Score	327
Exons	41640..42149		

GI Descrip. PATHOGENESIS-RELATED PROTEIN PRMS PRECURSOR

gi|100906|pir|S14969 pathogenesis-related protein - maize

gi|22454|emb|CAA38223|(X54325) pathogenesis-related protein

[Zea mays]

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o4.tm	Method	TBLASTX:Maize
Start	41640	End	42050
GI	none	Score	120
Exons	41640..41690, 41689..41886, 41706..41888, 41883..41963, 42009..42050		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o3.tw	Method	TBLASTX:Wheat
Start	41640	End	42050
GI	none	Score	53
Exons	41640..41708, 41644..41691, 41689..41865, 41727..41864, 41898..41969, 42009..42050		

Seq. No.	37685	Seq. ID	OJ991029_03.0127.C5
Gene No.	77434	Strand	-
Start	41637	End	42236
Name	OJ991029_03.0127.C5.o5.gp	Method	AAT/GAP
Start	41807	End	42236
GI	uC-osroM202030d08b1	Score	841
Exons	41807..42236		
GI Descrip.	'3290004 3.0e-10 (U82200) pathogenesis related protein-1 [Zea mays]'		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77435	Strand	+
Start	2166	End	4542
Name	OJ991029_03.0127.C6.o1.gs	Method	GENSCAN
Start	2166	End	4542
GI	none	Score	.69
Exons	2166..2921, 2994..3033, 3158..4143, 4237..4542		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77436	Strand	+
Start	12647	End	14844
Name	OJ991029_03.0127.C6.o1.gp	Method	AAT/GAP
Start	12580	End	14674
GI	uC-osroM202030d08b1	Score	759
Exons	12580..12735, 14403..14674		
GI Descrip.	'3290004 3.0e-10 (U82200) pathogenesis related protein-1 [Zea mays]'		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77436	Strand	+
Start	12647	End	14844
Name	OJ991029_03.0127.C6.o3.gs	Method	GENSCAN
Start	12647	End	14844
GI	none	Score	.59
Exons	12647..12709, 12790..12843, 12873..12965, 13161..13511, 13843..13921, 14187..14266, 14401..14844		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77436	Strand	+
Start	12647	End	14844
Name	OJ991029_03.0127.C6.o3.np	Method	AAT/NAP
Start	13435	End	14841
GI	548589	Score	307
Exons	13435..13511, 14418..14841		
GI Descrip.	PATHOGENESIS-RELATED PROTEIN PRB1-3 PRECURSOR (PR-1B) (HV-8) gi 1076726 pir  S52626 pathogenesis-related protein prb1-3 precursor - barley gi 401833 emb CAA52894  (X74940) PR-1b pathogenesis related protein (Hv-8) [Hordeum vulgare]		

gi|402213|emb|CAA81230| (Z26321) pathogenesis-related protein  
 [Hordeum vulgare] gi|402623|emb|CAA81234| (Z26333)  
 pathogenesis-related pr

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77437	Strand	+
Start	26759	End	31848
Name	OJ991029_03.0127.C6.o5.gs	Method	GENSCAN
Start	26759	End	31610
GI	none	Score	.79
Exons	26759..26917, 27961..28034, 29996..30145, 30252..30537, 30932..31165, 31302..31610		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77437	Strand	+
Start	26759	End	31848
Name	OJ991029_03.0127.C6.o6.np	Method	AAT/NAP
Start	26762	End	31669
GI	6671963	Score	1050
Exons	26762..26917, 27961..28034, 29996..30145, 30252..30537, 30932..31165, 31302..31669		

GI Descrip. (AC013454) unknown protein [Arabidopsis thaliana]

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77437	Strand	+
Start	26759	End	31848
Name	OJ991029_03.0127.C6.o3.gp	Method	AAT/GAP
Start	30046	End	30982
GI	3548925	Score	792
Exons	30046..30145, 30252..30537, 30932..30982		
GI Descrip.	3047085 5.0e-54 (AF058914) No definition line found [Arabidopsis thaliana]		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77437	Strand	+
Start	26759	End	31848
Name	OJ991029_03.0127.C6.o4.gp	Method	AAT/GAP
Start	31562	End	31848
GI	LIB3434-062-P1-K1-A12	Score	273
Exons	31562..31848		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77438	Strand	-
Start	5768	End	9698
Name	OJ991029_03.0127.C6.o1.np	Method	AAT/NAP
Start	5768	End	9698
GI	4206306	Score	3062
Exons	5768..9698		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77439	Strand	-
Start	20365	End	20608
Name	OJ991029_03.0127.C6.o4.np	Method	AAT/NAP
Start	20365	End	20608

GI	5257259	Score	88
Exons	20365..20608		
GI Descrip.	(AP000364) hypothetical protein [Oryza sativa]		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77440	Strand	-
Start	21598	End	23622
Name	OJ991029_03.0127.C6.o5.np	Method	AAT/NAP
Start	21598	End	23622
GI	1171577	Score	927
Exons	21598..21647, 22198..23077, 23176..23622		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o8.tw	Method	TBLASTX:Wheat
Start	5777	End	6372
GI	none	Score	94
Exons	5777..5902, 6094..6228, 6253..6372		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o5.ts	Method	TBLASTX:Soybean
Start	6343	End	6717
GI	none	Score	59
Exons	6343..6567, 6350..6568, 6574..6717, 6575..6688		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o5.tm	Method	TBLASTX:Maize
Start	6358	End	6720
GI	none	Score	252
Exons	6358..6720, 6359..6628		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o4.tw	Method	TBLASTX:Wheat
Start	6490	End	6879
GI	none	Score	45
Exons	6490..6879, 6572..6613, 6668..6835		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o7.tm	Method	TBLASTX:Maize
Start	6720	End	6987
GI	none	Score	77
Exons	6720..6935, 6721..6987, 6722..6862		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o3.tw	Method	TBLASTX:Wheat

Start	7189	End	7621
GI	none	Score	105
Exons	7189..7620, 7190..7363, 7385..7621		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o6.ts	Method	TBLASTX:Soybean
Start	7264	End	7623
GI	none	Score	65
Exons	7264..7623, 7265..7480		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o3.ts	Method	TBLASTX:Soybean
Start	7886	End	8269
GI	none	Score	98
Exons	7886..8269, 8076..8219		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o2.tw	Method	TBLASTX:Wheat
Start	7895	End	8314
GI	none	Score	184
Exons	7895..8314, 8001..8261		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o4.tm	Method	TBLASTX:Maize
Start	7991	End	8371
GI	none	Score	189
Exons	7991..8371, 8001..8261, 8036..8350		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o3.tm	Method	TBLASTX:Maize
Start	8399	End	8755
GI	none	Score	234
Exons	8399..8755, 8400..8747		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o1.tw	Method	TBLASTX:Wheat
Start	8429	End	8884
GI	none	Score	310
Exons	8429..8884, 8430..8849		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o5.tw	Method	TBLASTX:Wheat
Start	9088	End	9447



GI	none	Score	63
Exons	9088..9309, 9089..9136, 9316..9447		
Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o9.tw	Method	TBLASTX:Wheat
Start	10240	End	10578
GI	none	Score	180
Exons	10240..10578		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o4.ts	Method	TBLASTX:Soybean
Start	14431	End	14844
GI	none	Score	40
Exons	14431..14472, 14433..14471, 14512..14574, 14595..14792, 14617..14775, 14770..14844, 14788..14844		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o6.tm	Method	TBLASTX:Maize
Start	14431	End	14841
GI	none	Score	50
Exons	14431..14472, 14433..14471, 14518..14574, 14595..14792, 14617..14775, 14790..14837, 14791..14841		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o6.tw	Method	TBLASTX:Wheat
Start	14431	End	23277
GI	none	Score	46
Exons	14431..14472, 14512..14574, 14616..14792, 14617..14754, 14773..14841, 14788..14835, 23194..23277		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o1.ts	Method	TBLASTX:Soybean
Start	22589	End	23598
GI	none	Score	91
Exons	22589..22765, 22748..22828, 22874..23080, 22916..23080, 23168..23257, 23170..23265, 23254..23442, 23272..23400, 23321..23443, 23464..23598		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o7.tw	Method	TBLASTX:Wheat
Start	23374	End	23607
GI	none	Score	69
Exons	23374..23442, 23376..23435, 23377..23442, 23449..23607, 23450..23530		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o1.tm	Method	TBLASTX:Maize
Start	26846	End	31476
GI	none	Score	117
Exons	26846..26920, 27930..28034, 27952..28035, 29973..30146, 29993..30145, 29997..30149, 29998..30147, 30252..30527, 30252..30536, 30253..30537, 30925..31164, 30929..31165, 31291..31335, 31299..31352, 31342..31476		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o2.ts	Method	TBLASTX:Soybean
Start	30092	End	31084
GI	none	Score	77
Exons	30092..30145, 30093..30146, 30252..30536, 30253..30537, 30925..31077, 30925..31083, 30929..31084		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o1.tc	Method	TBLASTX:Cress
Start	30297	End	31123
GI	none	Score	267
Exons	30297..30536, 30310..30537, 30313..30537, 30925..31086, 30925..31074, 30929..31123		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o7.np	Method	AAT/NAP
Start	31100	End	37220
GI	5042169	Score	223
Exons	31100..31197, 32951..33849, 37177..37220		
GI Descrip.	(AL078620) putative protein [Arabidopsis thaliana]		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o6.gs	Method	GENSCAN
Start	32920	End	34227
GI	none	Score	.99
Exons	32920..34227		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o8.tm	Method	TBLASTX:Maize
Start	32921	End	33144
GI	none	Score	152
Exons	32921..33052, 32921..33058, 33058..33144, 33060..33134		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220

Name	OJ991029_03.0127.C6.o2.tm	Method	TBLASTX:Maize
Start	33361	End	33775
GI	none	Score	42
Exons	33361..33432, 33362..33388, 33427..33759, 33439..33762, 33620..33775		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o8.np	Method	AAT/NAP
Start	34523	End	36845
GI	6721512	Score	87
Exons	34523..34622, 36803..36845		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37686	Seq. ID	OJ991029_03.0127.C6
Gene No.	77441	Strand	-
Start	31100	End	37220
Name	OJ991029_03.0127.C6.o9.np	Method	AAT/NAP
Start	34581	End	35537
GI	6498436	Score	110
Exons	34581..34628, 35015..35110, 35238..35537		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	37687	Seq. ID	OJ991029_03.0127.C7
Gene No.	77442	Strand	-
Start	1	End	338
Name	OJ991029_03.0127.C7.o1.np	Method	AAT/NAP
Start	1	End	338
GI	5103193	Score	581
Exons	1..338		
GI Descrip.	(AP000342) transposase of Tn10 [Plasmid R100] gi 5738084 gb AAD50242.1 AF162223_1 (AF162223) IS10-left transposase [Shigella flexneri]		

Seq. No.	37687	Seq. ID	OJ991029_03.0127.C7
Gene No.	77442	Strand	-
Start	1	End	338
Name	OJ991029_03.0127.C7.o1.gs	Method	GENSCAN
Start	15	End	338
GI	none	Score	.78
Exons	15..338		

Seq. No.	37687	Seq. ID	OJ991029_03.0127.C7
Gene No.	77443	Strand	-
Start	298	End	444
Name	OJ991029_03.0127.C7.o1.tc	Method	TBLASTX:Cress
Start	298	End	444
GI	none	Score	191
Exons	298..444, 298..417, 300..443		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o1.gs	Method	GENSCAN
Start	191	End	8365
GI	none	Score	.76

Exons 191..4645, 4666..4740, 7255..7406, 7574..7664, 7792..8252, 8293..8365

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o1.np	Method	AAT/NAP
Start	194	End	4740
GI	4680179	Score	6851
Exons	194..4740		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o7.tm	Method	TBLASTX:Maize
Start	218	End	415
GI	none	Score	197
Exons	218..415		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o6.tw	Method	TBLASTX:Wheat
Start	239	End	571
GI	none	Score	130
Exons	239..571, 260..544		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o1.tm	Method	TBLASTX:Maize
Start	419	End	1018
GI	none	Score	261
Exons	419..859, 432..860, 855..1010, 857..1018, 864..1010		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o1.tw	Method	TBLASTX:Wheat
Start	572	End	1198
GI	none	Score	403
Exons	572..1198, 573..1196		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o3.tm	Method	TBLASTX:Maize
Start	1067	End	1358
GI	none	Score	83
Exons	1067..1357, 1069..1356, 1071..1358		

Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o2.ts	Method	TBLASTX:Soybean
Start	1157	End	1417

GI	none	Score	166
Exons	1157..1417, 1158..1412		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o1.tc	Method	TBLASTX:Cress
Start	1181	End	1498
GI	none	Score	92
Exons	1181..1324, 1182..1322, 1325..1498		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o3.tw	Method	TBLASTX:Wheat
Start	1205	End	1684
GI	none	Score	261
Exons	1205..1684, 1206..1460, 1238..1651		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o2.np	Method	AAT/NAP
Start	1504	End	7488
GI	4539664	Score	353
Exons	1504..1583, 3668..4645, 7300..7488		
GI Descrip.	(AF061282) hypothetical protein [Sorghum bicolor]		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o2.tw	Method	TBLASTX:Wheat
Start	1688	End	2197
GI	none	Score	270
Exons	1688..2197, 1775..2158, 1779..2189		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o2.tm	Method	TBLASTX:Maize
Start	1762	End	2125
GI	none	Score	240
Exons	1762..2085, 1772..2125, 1779..2123		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o3.ts	Method	TBLASTX:Soybean
Start	1946	End	2191
GI	none	Score	209
Exons	1946..2191		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o5.tm	Method	TBLASTX:Maize
Start	2126	End	2479

GI none  
Exons 2126..2479, 2133..2411

Score 124

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o5.tw  
Start 2198  
GI none  
Exons 2198..2500, 2199..2462, 2207..2500

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Wheat  
End 2500  
Score 239

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o1.ts  
Start 2213  
GI none  
Exons 2213..2572, 2214..2456, 2243..2551, 2425..2565, 2576..2608, 2580..2606

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Soybean  
End 2608  
Score 154

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o4.tm  
Start 2495  
GI none  
Exons 2495..2962, 2627..2875, 2721..2891

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Maize  
End 2962  
Score 77

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o4.tw  
Start 2549  
GI none  
Exons 2549..3031, 2592..2927

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Wheat  
End 3031  
Score 266

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o4.ts  
Start 2681  
GI none  
Exons 2681..2995, 2682..2879

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Soybean  
End 2995  
Score 59

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o8.tw  
Start 3206  
GI none  
Exons 3206..3379, 3237..3305, 3287..3346, 3383..3607, 3441..3593

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Wheat  
End 3607  
Score 54

Seq. No. 37688  
Gene No. 77444  
Start 191  
Name OJ991029\_02.0121.C1.o8.tm  
Start 3293

Seq. ID OJ991029\_02.0121.C1  
Strand -  
End 8365  
Method TBLASTX:Maize  
End 3569

GI	none	Score	78
Exons	3293..3568, 3468..3569		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o6.tm	Method	TBLASTX:Maize
Start	3935	End	4267
GI	none	Score	104
Exons	3935..4267, 4080..4244		
Seq. No.	37688	Seq. ID	OJ991029_02.0121.C1
Gene No.	77444	Strand	-
Start	191	End	8365
Name	OJ991029_02.0121.C1.o7.tw	Method	TBLASTX:Wheat
Start	4148	End	4528
GI	none	Score	91
Exons	4148..4528, 4149..4382, 4331..4501, 4407..4508		
Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77445	Strand	+
Start	1	End	6875
Name	OJ991029_02.0121.C2.o1.np	Method	AAT/NAP
Start	1	End	1426
GI	5295955	Score	328
Exons	1..75, 253..644, 783..1426		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77445	Strand	+
Start	1	End	6875
Name	OJ991029_02.0121.C2.o1.gs	Method	GENSCAN
Start	297	End	6875
GI	none	Score	.45
Exons	297..667, 1842..1962, 2850..3171, 3177..4132, 4685..4766, 6435..6565, 6681..6875		
Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77445	Strand	+
Start	1	End	6875
Name	OJ991029_02.0121.C2.o2.np	Method	AAT/NAP
Start	2695	End	4786
GI	6907087	Score	1242
Exons	2695..3069, 3442..4132, 4685..4786		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77445	Strand	+
Start	1	End	6875
Name	OJ991029_02.0121.C2.o1.gp	Method	AAT/GAP
Start	5252	End	5624
GI	uC-osflcyp033a04b1	Score	512
Exons	5252..5624		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic		

DNA, chromosome 1, clone:P0711E10'

Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77446	Strand	-
Start	5180	End	7135
Name	OJ991029_02.0121.C2.o3.np	Method	AAT/NAP
Start	5180	End	7135
GI	4680186	Score	207
Exons	5180..5385, 7094..7135		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77447	Strand	-
Start	7646	End	8240
Name	OJ991029_02.0121.C2.o2.gs	Method	GENSCAN
Start	7646	End	8240
GI	none	Score	.73
Exons	7646..7911, 8006..8240		

Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77448	Strand	-
Start	10183	End	14592
Name	OJ991029_02.0121.C2.o3.gs	Method	GENSCAN
Start	10183	End	13901
GI	none	Score	.78
Exons	10183..10281, 11101..11264, 11472..11599, 11643..11896, 12151..12418, 12511..12809, 12902..13670, 13753..13901		

Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77448	Strand	-
Start	10183	End	14592
Name	OJ991029_02.0121.C2.o4.np	Method	AAT/NAP
Start	10971	End	14592
GI	5441880	Score	488
Exons	10971..11216, 11625..11881, 12184..12404, 12503..12803, 13322..13627, 13734..13907, 14475..14592		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	37689	Seq. ID	OJ991029_02.0121.C2
Gene No.	77448	Strand	-
Start	10183	End	14592
Name	OJ991029_02.0121.C2.o1.tw	Method	TBLASTX:Wheat
Start	13259	End	13588
GI	none	Score	96
Exons	13259..13291, 13328..13363, 13397..13525, 13398..13526, 13532..13585, 13535..13588		

Seq. No.	37690	Seq. ID	OJ991029_02.0121.C3
Gene No.	77449	Strand	-
Start	1	End	1452
Name	OJ991029_02.0121.C3.o1.np	Method	AAT/NAP
Start	1	End	1452
GI	5441880	Score	697
Exons	1..29, 445..1452		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the		



predicted gene.; Similar to maize transposon MuDR mudrA protein.  
(AC003981) [Oryza sativa]

Seq. No.	37690	Seq. ID	OJ991029_02.0121.C3
Gene No.	77449	Strand	-
Start	1	End	1452
Name	OJ991029_02.0121.C3.o1.tw	Method	TBLASTX:Wheat
Start	231	End	592
GI	none	Score	68
Exons	231..428, 308..394, 327..416, 373..420, 437..592, 445..591		

Seq. No.	37690	Seq. ID	OJ991029_02.0121.C3
Gene No.	77449	Strand	-
Start	1	End	1452
Name	OJ991029_02.0121.C3.o1.tm	Method	TBLASTX:Maize
Start	327	End	883
GI	none	Score	44
Exons	327..407, 379..405, 454..729, 488..730, 730..882, 761..883		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77450	Strand	+
Start	1825	End	4389
Name	OJ991029_02.0121.C4.o1.gs	Method	GENSCAN
Start	1825	End	4389
GI	none	Score	.41
Exons	1825..1919, 3029..3120, 4250..4389		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77451	Strand	+
Start	4718	End	19215
Name	OJ991029_02.0121.C4.o1.np	Method	AAT/NAP
Start	4682	End	15168
GI	6056374	Score	1903
Exons	4682..4929, 9962..10015, 10202..10276, 10327..10428, 10756..10827, 10935..11008, 11093..11162, 11437..11526, 11583..11677, 11756..11795, 11903..12006, 12093..12158, 12253..12318, 12392..12443, 12541..12595, 12680..13059, 13128..13326, 13397..13552, 13638..13756, 13891..14105, 14244..14471, 14554..14704, 14795..15168		
GI Descrip.	(AC009894) Similar to serine/threonine kinases [Arabidopsis thaliana]		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77451	Strand	+
Start	4718	End	19215
Name	OJ991029_02.0121.C4.o2.gs	Method	GENSCAN
Start	4718	End	19215
GI	none	Score	.52
Exons	4718..4911, 5665..5954, 6103..6239, 6481..6659, 9944..10020, 12680..13059, 13598..13756, 13891..14101, 14291..14471, 14554..14704, 14909..15145, 16644..16800, 18769..19078, 19137..19215		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77451	Strand	+
Start	4718	End	19215
Name	OJ991029_02.0121.C4.o1.gp	Method	AAT/GAP

Start	12391	End	12930
GI	60459_1.R1084	Score	680
Exons	12391..12436, 12531..12595, 12680..12930		
GI Descrip.	'6056372/gb AAF02836.1 AC009894 7 2.0e-21 (AC009894) Very similar to receptor-like serine/threonine kinase [Arabidopsis thaliana]'		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77451	Strand	+
Start	4718	End	19215
Name	OJ991029_02.0121.C4.o2.gp	Method	AAT/GAP
Start	14585	End	15225
GI	15862_1.R1084	Score	1062
Exons	14585..14704, 14795..15225		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence'		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77452	Strand	+
Start	26300	End	26851
Name	OJ991029_02.0121.C4.o4.gs	Method	GENSCAN
Start	26300	End	26851
GI	none	Score	99
Exons	26300..26851		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77453	Strand	-
Start	17012	End	24415
Name	OJ991029_02.0121.C4.o2.np	Method	AAT/NAP
Start	17012	End	24391
GI	4206306	Score	1222
Exons	17012..18177, 21533..21698, 21900..23822, 24013..24391		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77453	Strand	-
Start	17012	End	24415
Name	OJ991029_02.0121.C4.o3.gp	Method	AAT/GAP
Start	20714	End	21207
GI	576771	Score	832
Exons	20714..20924, 20951..21207		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77453	Strand	-
Start	17012	End	24415
Name	OJ991029_02.0121.C4.o3.gs	Method	GENSCAN
Start	20936	End	24415
GI	none	Score	.6
Exons	20936..21087, 21719..22144, 22908..23912, 24232..24415		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77453	Strand	-
Start	17012	End	24415
Name	OJ991029_02.0121.C4.o3.np	Method	AAT/NAP
Start	24058	End	24415

GI 3377834 Score 111  
 Exons 24058..24415  
 GI Descrip. (AF075598) No definition line found [Arabidopsis thaliana]  
  
 Seq. No. 37691 Seq. ID OJ991029\_02.0121.C4  
 Gene No. 77454 Strand -  
 Start 25120 End 25502  
 Name OJ991029\_02.0121.C4.o4.gp Method AAT/GAP  
 Start 25120 End 25502  
 GI uC-osflcyp033a04b1 Score 700  
 Exons 25120..25502  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic  
 DNA, chromosome 1, clone:P0711E10'

Seq. No. 37691 Seq. ID OJ991029\_02.0121.C4  
 Gene No. 77455 Strand -  
 Start 27542 End 28959  
 Name OJ991029\_02.0121.C4.o4.ts Method TBLASTX:Soybean  
 Start 12742 End 13325  
 GI none Score 190  
 Exons 12742..13059, 13128..13175, 13188..13325

Seq. No. 37691 Seq. ID OJ991029\_02.0121.C4  
 Gene No. 77455 Strand -  
 Start 27542 End 28959  
 Name OJ991029\_02.0121.C4.o4.tm Method TBLASTX:Maize  
 Start 12798 End 13292  
 GI none Score 291  
 Exons 12798..13058, 12802..13059, 12833..13060, 12894..13061,  
 13126..13290, 13127..13291, 13128..13292

Seq. No. 37691 Seq. ID OJ991029\_02.0121.C4  
 Gene No. 77455 Strand -  
 Start 27542 End 28959  
 Name OJ991029\_02.0121.C4.o2.tc Method TBLASTX:Cress  
 Start 12862 End 13327  
 GI none Score 217  
 Exons 12862..13068, 12888..13064, 13040..13105, 13128..13325,  
 13204..13308, 13211..13327, 13217..13324

Seq. No. 37691 Seq. ID OJ991029\_02.0121.C4  
 Gene No. 77455 Strand -  
 Start 27542 End 28959  
 Name OJ991029\_02.0121.C4.o3.tm Method TBLASTX:Maize  
 Start 13396 End 14701  
 GI none Score 49  
 Exons 13396..13440, 13429..13554, 13628..13756, 13633..13758,  
 13875..14102, 13882..14103, 13890..14102, 14179..14469,  
 14229..14468, 14554..14700, 14555..14701

Seq. No. 37691 Seq. ID OJ991029\_02.0121.C4  
 Gene No. 77455 Strand -  
 Start 27542 End 28959  
 Name OJ991029\_02.0121.C4.o1.ts Method TBLASTX:Soybean  
 Start 13661 End 14956  
 GI none Score 95  
 Exons 13661..13756, 13912..14103, 14184..14468, 14188..14472,

14555..14680, 14563..14649, 14795..14839, 14852..14956

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o3.tc	Method	TBLASTX:Cress
Start	13733	End	14103
GI	none	Score	44
Exons	13733..13756, 13882..14103, 13882..14100, 13890..14102		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o8.tw	Method	TBLASTX:Wheat
Start	13885	End	14100
GI	none	Score	193
Exons	13885..14100, 13890..14033		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o6.tw	Method	TBLASTX:Wheat
Start	14242	End	14650
GI	none	Score	167
Exons	14242..14469, 14346..14468, 14554..14649, 14555..14650		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o1.tc	Method	TBLASTX:Cress
Start	14260	End	14704
GI	none	Score	278
Exons	14260..14472, 14262..14471, 14551..14703, 14555..14704		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o7.tm	Method	TBLASTX:Maize
Start	14790	End	14995
GI	none	Score	76
Exons	14790..14984, 14792..14983, 14797..14994, 14798..14995		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o4.tc	Method	TBLASTX:Cress
Start	14791	End	15025
GI	none	Score	217
Exons	14791..14994, 14795..15025, 14834..15013		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o5.tw	Method	TBLASTX:Wheat
Start	14804	End	15019
GI	none	Score	250
Exons	14804..15019, 14806..15003, 14825..15019		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o6.ts	Method	TBLASTX:Soybean
Start	16974	End	27931
GI	none	Score	37
Exons	16974..17045, 17006..17251, 17121..17249, 27857..27931		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o1.tw	Method	TBLASTX:Wheat
Start	17342	End	28549
GI	none	Score	277
Exons	17342..17761, 27923..28549, 27924..28493		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o7.ts	Method	TBLASTX:Soybean
Start	17594	End	17989
GI	none	Score	71
Exons	17594..17989, 17712..17888		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o8.tm	Method	TBLASTX:Maize
Start	17843	End	18169
GI	none	Score	190
Exons	17843..18169		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o3.tw	Method	TBLASTX:Wheat
Start	17885	End	28945
GI	none	Score	295
Exons	17885..18004, 28556..28945, 28557..28940, 28562..28945		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o7.tw	Method	TBLASTX:Wheat
Start	22014	End	22448
GI	none	Score	57
Exons	22014..22304, 22231..22305, 22359..22448		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o2.ts	Method	TBLASTX:Soybean
Start	22077	End	22494
GI	none	Score	75
Exons	22077..22319, 22081..22194, 22234..22320, 22356..22493, 22387..22494		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o5.ts	Method	TBLASTX:Soybean
Start	22645	End	23115
GI	none	Score	55
Exons	22645..22755, 22647..22793, 22826..23080, 22834..23115		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o2.tm	Method	TBLASTX:Maize
Start	22803	End	23262
GI	none	Score	54
Exons	22803..22904, 22804..23262, 22805..23143, 23010..23225, 23029..23262		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o9.tw	Method	TBLASTX:Wheat
Start	22828	End	23112
GI	none	Score	186
Exons	22828..23112		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o2.tw	Method	TBLASTX:Wheat
Start	23129	End	23538
GI	none	Score	72
Exons	23129..23524, 23130..23216, 23131..23538, 23198..23521		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o6.tm	Method	TBLASTX:Maize
Start	23263	End	23478
GI	none	Score	211
Exons	23263..23478, 23264..23476		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o5.gs	Method	GENSCAN
Start	27542	End	28939
GI	none	Score	1
Exons	27542..28939		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o4.np	Method	AAT/NAP
Start	27545	End	28959
GI	4680179	Score	2073
Exons	27545..28959		

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o4.tw	Method	TBLASTX:Wheat
Start	27590	End	27923
GI	none	Score	118
Exons	27590..27922, 27611..27919, 27654..27923		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o1.tm	Method	TBLASTX:Maize
Start	27770	End	28369
GI	none	Score	257
Exons	27770..28210, 27786..28211, 28208..28369, 28215..28361		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o5.tm	Method	TBLASTX:Maize
Start	28418	End	28709
GI	none	Score	208
Exons	28418..28708, 28422..28709		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o3.ts	Method	TBLASTX:Soybean
Start	28508	End	28768
GI	none	Score	148
Exons	28508..28768, 28509..28763		

Seq. No.	37691	Seq. ID	OJ991029_02.0121.C4
Gene No.	77455	Strand	-
Start	27542	End	28959
Name	OJ991029_02.0121.C4.o5.tc	Method	TBLASTX:Cress
Start	28532	End	28849
GI	none	Score	85
Exons	28532..28675, 28533..28673, 28676..28849		

Seq. No.	37692	Seq. ID	OJ991029_02.0121.C5
Gene No.	77456	Strand	-
Start	287	End	5838
Name	OJ991029_02.0121.C5.o1.gs	Method	GENSCAN
Start	287	End	5838
GI	none	Score	.47
Exons	287..670, 710..788, 834..1710, 2166..3074, 3121..3255, 5724..5838		

Seq. No.	37692	Seq. ID	OJ991029_02.0121.C5
Gene No.	77457	Strand	-
Start	7521	End	10138
Name	OJ991029_02.0121.C5.o1.tm	Method	TBLASTX:Maize
Start	1277	End	1612
GI	none	Score	58

Exons 1277..1486, 1374..1475, 1487..1612, 1497..1595

Seq. No.	37692	Seq. ID	OJ991029_02.0121.C5
Gene No.	77457	Strand	-
Start	7521	End	10138
Name	OJ991029_02.0121.C5.o2.gs	Method	GENSCAN
Start	7521	End	10138
GI	none	Score	.46
Exons	7521..7529, 8035..8184, 8832..9046, 10061..10138		

Seq. No.	37693	Seq. ID	OJ991029_02.0121.C6
Gene No.	77458	Strand	+
Start	87	End	1443
Name	OJ991029_02.0121.C6.o1.gs	Method	GENSCAN
Start	87	End	1443
GI	none	Score	.95
Exons	87..96, 1319..1443		

Seq. No.	37693	Seq. ID	OJ991029_02.0121.C6
Gene No.	77459	Strand	+
Start	1363	End	6182
Name	OJ991029_02.0121.C6.o1.np	Method	AAT/NAP
Start	1363	End	4470
GI	4733937	Score	126
Exons	1363..1502, 1929..2225, 4445..4470		
GI Descrip.	(AF080245) sesquiterpene synthase [ <i>Elaeis oleifera</i> ]		

Seq. No.	37693	Seq. ID	OJ991029_02.0121.C6
Gene No.	77459	Strand	+
Start	1363	End	6182
Name	OJ991029_02.0121.C6.o3.np	Method	AAT/NAP
Start	2557	End	6182
GI	5091529	Score	52
Exons	2557..2636, 4650..4758, 6122..6182		
GI Descrip.	(AB023482) ESTs C98382(C2985), D22444(C11129) correspond to a region of the predicted gene.; Similar to <i>Arabidopsis thaliana</i> APK1 gene for protein tyrosine-serine-threonine kinase. (D12522) [ <i>Oryza sativa</i> ]		

Seq. No.	37693	Seq. ID	OJ991029_02.0121.C6
Gene No.	77459	Strand	+
Start	1363	End	6182
Name	OJ991029_02.0121.C6.o2.np	Method	AAT/NAP
Start	4137	End	6182
GI	5734709	Score	99
Exons	4137..4496, 6024..6182		
GI Descrip.	(AC008075) Contains PF00069 Eukaryotic protein kinase domain. [ <i>Arabidopsis thaliana</i> ]		

Seq. No.	37693	Seq. ID	OJ991029_02.0121.C6
Gene No.	77460	Strand	-
Start	3909	End	4749
Name	OJ991029_02.0121.C6.o3.gs	Method	GENSCAN
Start	3909	End	4749
GI	none	Score	.52
Exons	3909..4129, 4173..4451, 4627..4749		



Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77461	Strand	+
Start	729	End	11211
Name	OJ991029_02.0121.C7.o1.gs	Method	GENSCAN
Start	729	End	11209
GI	none	Score	.67
Exons	729..1494, 1857..2963, 3149..6271, 6996..7288, 7470..7592, 8345..8417, 10173..10332, 10991..11209		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77461	Strand	+
Start	729	End	11211
Name	OJ991029_02.0121.C7.o1.gp	Method	AAT/GAP
Start	1004	End	1458
GI	95437_1.R1084	Score	774
Exons	1004..1458		
GI Descrip.	'4512226/dbj AB014738.1 AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete sequence'		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77461	Strand	+
Start	729	End	11211
Name	OJ991029_02.0121.C7.o1.np	Method	AAT/NAP
Start	1785	End	6285
GI	4680179	Score	5415
Exons	1785..2851, 2885..6285		
GI Descrip.	(AF111709). polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77461	Strand	+
Start	729	End	11211
Name	OJ991029_02.0121.C7.o3.np	Method	AAT/NAP
Start	8082	End	11211
GI	5360741	Score	282
Exons	8082..8116, 9956..10332, 10991..11211		
GI Descrip.	(AB023816) vetispiradiene synthase [Solanum tuberosum]		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77461	Strand	+
Start	729	End	11211
Name	OJ991029_02.0121.C7.o2.gp	Method	AAT/GAP
Start	8368	End	8753
GI	uC-osflcyp033a04b1	Score	629
Exons	8368..8753		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77462	Strand	-
Start	8301	End	11393
Name	OJ991029_02.0121.C7.o9.tw	Method	TBLASTX:Wheat
Start	1863	End	2206
GI	none	Score	206
Exons	1863..1895, 2006..2203, 2008..2205, 2114..2206		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
----------	-------	---------	---------------------

Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o7.tw  
 Start 2239  
 GI none  
 Exons 2239..2433, 2255..2590

Strand -  
 End 11393  
 Method TBLASTX:Wheat  
 End 2590  
 Score 275

Seq. No. 37694  
 Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o6.tm  
 Start 2254  
 GI none  
 Exons 2254..2418, 2255..2545

Seq. ID OJ991029\_02.0121.C7  
 Strand -  
 End 11393  
 Method TBLASTX:Maize  
 End 2545  
 Score 230

Seq. No. 37694  
 Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o8.tw  
 Start 2912  
 GI none  
 Exons 2912..3109, 2968..3060, 3165..3278, 3166..3333

Seq. ID OJ991029\_02.0121.C7  
 Strand -  
 End 11393  
 Method TBLASTX:Wheat  
 End 3333  
 Score 147

Seq. No. 37694  
 Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o4.tw  
 Start 3448  
 GI none  
 Exons 3448..3498, 3552..3887, 3553..3930, 3562..3927

Seq. ID OJ991029\_02.0121.C7  
 Strand -  
 End 11393  
 Method TBLASTX:Wheat  
 End 3930  
 Score 52

Seq. No. 37694  
 Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o5.tm  
 Start 3460  
 GI none  
 Exons 3460..3747, 3558..3749

Seq. ID OJ991029\_02.0121.C7  
 Strand -  
 End 11393  
 Method TBLASTX:Maize  
 End 3749  
 Score 276

Seq. No. 37694  
 Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o3.tm  
 Start 3817  
 GI none  
 Exons 3817..3996, 3825..3971, 4003..4317, 4068..4196, 4224..4274

Seq. ID OJ991029\_02.0121.C7  
 Strand -  
 End 11393  
 Method TBLASTX:Maize  
 End 4317  
 Score 164

Seq. No. 37694  
 Gene No. 77462  
 Start 8301  
 Name OJ991029\_02.0121.C7.o1.ts  
 Start 3871  
 GI none  
 Exons 3871..3903, 3873..3902, 3907..4266, 3909..4265, 3910..4266

Seq. ID OJ991029\_02.0121.C7  
 Strand -  
 End 11393  
 Method TBLASTX:Soybean  
 End 4266  
 Score 57

Seq. No. 37694  
 Gene No. 77462

Seq. ID OJ991029\_02.0121.C7  
 Strand -

Start 8301  
Name OJ991029\_02.0121.C7.o5.tw  
Start 3979  
GI none  
Exons 3979..4281, 3981..4265

End 11393  
Method TBLASTX:Wheat  
End 4281  
Score 381

Seq. No. 37694  
Gene No. 77462  
Start 8301  
Name OJ991029\_02.0121.C7.o3.tw  
Start 4282  
GI none  
Exons 4282..4704, 4314..4703

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393  
Method TBLASTX:Wheat  
End 4704  
Score 598

Seq. No. 37694  
Gene No. 77462  
Start 8301  
Name OJ991029\_02.0121.C7.o3.ts  
Start 4288  
GI none  
Exons 4288..4533, 4305..4433

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393  
Method TBLASTX:Soybean  
End 4533  
Score 207

Seq. No. 37694  
Gene No. 77462  
Start 8301  
Name OJ991029\_02.0121.C7.o2.tm  
Start 4353  
GI none  
Exons 4353..4703, 4354..4707, 4354..4716

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393  
Method TBLASTX:Maize  
End 4716  
Score 482

Seq. No. 37694  
Gene No. 77462  
Start 8301  
Name OJ991029\_02.0121.C7.o2.tw  
Start 4707  
GI none  
Exons 4707..5273, 4738..5274

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393  
Method TBLASTX:Wheat  
End 5274  
Score 652

Seq. No. 37694  
Gene No. 77462  
Start 8301  
Name OJ991029\_02.0121.C7.o1.tc  
Start 4981  
GI none  
Exons 4981..5154, 5155..5298, 5157..5297

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393  
Method TBLASTX:Cress  
End 5298  
Score 90

Seq. No. 37694  
Gene No. 77462  
Start 8301  
Name OJ991029\_02.0121.C7.o2.ts  
Start 5062  
GI none  
Exons 5062..5322, 5067..5321

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393  
Method TBLASTX:Soybean  
End 5322  
Score 296

Seq. No. 37694  
Gene No. 77462  
Start 8301

Seq. ID OJ991029\_02.0121.C7  
Strand -  
End 11393

Name	OJ991029_02.0121.C7.o4.tm	Method	TBLASTX:Maize
Start	5120	End	5412
GI	none	Score	104
Exons	5120..5308, 5121..5408, 5122..5412		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77462	Strand	-
Start	8301	End	11393
Name	OJ991029_02.0121.C7.o1.tw	Method	TBLASTX:Wheat
Start	5281	End	5907
GI	none	Score	708
Exons	5281..5907, 5337..5906		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77462	Strand	-
Start	8301	End	11393
Name	OJ991029_02.0121.C7.o1.tm	Method	TBLASTX:Maize
Start	5461	End	6045
GI	none	Score	231
Exons	5461..5622, 5469..5615, 5619..6044, 5620..6045, 5782..6045		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77462	Strand	-
Start	8301	End	11393
Name	OJ991029_02.0121.C7.o6.tw	Method	TBLASTX:Wheat
Start	5907	End	6240
GI	none	Score	324
Exons	5907..6176, 5908..6240, 5911..6219		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77462	Strand	-
Start	8301	End	11393
Name	OJ991029_02.0121.C7.o2.np	Method	AAT/NAP
Start	8301	End	11393
GI	4680186	Score	330
Exons	8301..8502, 9338..9392, 11369..11393		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37694	Seq. ID	OJ991029_02.0121.C7
Gene No.	77462	Strand	-
Start	8301	End	11393
Name	OJ991029_02.0121.C7.o7.tm	Method	TBLASTX:Maize
Start	10064	End	11210
GI	none	Score	204
Exons	10064..10330, 10992..11210, 10992..11207		

Seq. No.	37695	Seq. ID	OJ991029_02.0121.C8
Gene No.	77463	Strand	+
Start	1	End	642
Name	OJ991029_02.0121.C8.o1.np	Method	AAT/NAP
Start	1	End	642
GI	4680179	Score	429
Exons	1..78, 112..642		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37695	Seq. ID	OJ991029_02.0121.C8
Gene No.	77463	Strand	+

Start	1	End	642
Name	OJ991029_02.0121.C8.o1.gs	Method	GENSCAN
Start	70	End	190
GI	none	Score	.74
Exons	70..190		

Seq. No.	37695	Seq. ID	OJ991029_02.0121.C8
Gene No.	77463	Strand	+
Start	1	End	642
Name	OJ991029_02.0121.C8.o1.tm	Method	TBLASTX:Maize
Start	133	End	458
GI	none	Score	188
Exons	133..456, 195..272, 366..458		

Seq. No.	37695	Seq. ID	OJ991029_02.0121.C8
Gene No.	77463	Strand	+
Start	1	End	642
Name	OJ991029_02.0121.C8.o1.tw	Method	TBLASTX:Wheat
Start	139	End	561
GI	none	Score	166
Exons	139..348, 195..347, 393..506, 394..561		

Seq. No.	37696	Seq. ID	OJ991029_02.0121.C9
Gene No.	77464	Strand	-
Start	150	End	255
Name	OJ991029_02.0121.C9.o1.gs	Method	GENSCAN
Start	150	End	255
GI	none	Score	.55
Exons	150..255		

Seq. No.	37697	Seq. ID	OJ991029_02.0121.C10
Gene No.	77465	Strand	-
Start	1	End	2317
Name	OJ991029_02.0121.C10.o1.np	Method	AAT/NAP
Start	1	End	2317
GI	4680179	Score	606
Exons	1..23, 1060..1289, 1458..2317		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37697	Seq. ID	OJ991029_02.0121.C10
Gene No.	77465	Strand	-
Start	1	End	2317
Name	OJ991029_02.0121.C10.o2.tw	Method	TBLASTX:Wheat
Start	1478	End	1714
GI	none	Score	173
Exons	1478..1714		

Seq. No.	37697	Seq. ID	OJ991029_02.0121.C10
Gene No.	77465	Strand	-
Start	1	End	2317
Name	OJ991029_02.0121.C10.o1.tm	Method	TBLASTX:Maize
Start	1535	End	1834
GI	none	Score	75
Exons	1535..1834, 1731..1820		

Seq. No.	37697	Seq. ID	OJ991029_02.0121.C10
Gene No.	77465	Strand	-

Start	1	End	2317
Name	OJ991029_02.0121.C10.o1.tw	Method	TBLASTX:Wheat
Start	1715	End	2074
GI	none	Score	53
Exons	1715..2005, 1715..2074, 1719..2072		

Seq. No.	37698	Seq. ID	OJ991029_02.0121.C11
Gene No.	77466	Strand	+
Start	94	End	634
Name	OJ991029_02.0121.C11.o1.np	Method	AAT/NAP
Start	94	End	634
GI	5852180	Score	539
Exons	94..201, 253..634		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37698	Seq. ID	OJ991029_02.0121.C11
Gene No.	77466	Strand	+
Start	94	End	634
Name	OJ991029_02.0121.C11.o1.gs	Method	GENSCAN
Start	246	End	578
GI	none	Score	1
Exons	246..578		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o1.np	Method	AAT/NAP
Start	1	End	655
GI	4680179	Score	1009
Exons	1..655		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o1.ts	Method	TBLASTX:Soybean
Start	5	End	391
GI	none	Score	188
Exons	5..355, 6..287, 315..353, 359..391, 360..389		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o2.tw	Method	TBLASTX:Wheat
Start	5	End	233
GI	none	Score	206
Exons	5..229, 6..233		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o1.tm	Method	TBLASTX:Maize
Start	8	End	445
GI	none	Score	54
Exons	8..259, 66..116, 266..445, 291..437		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
----------	-------	---------	----------------------

Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o1.gs	Method	GENSCAN
Start	63	End	634
GI	none	Score	.8
Exons	63..634		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o1.tw	Method	TBLASTX:Wheat
Start	235	End	607
GI	none	Score	90
Exons	235..423, 236..352, 252..446, 257..454, 458..541, 462..542, 524..607		

Seq. No.	37699	Seq. ID	OJ991029_02.0121.C12
Gene No.	77467	Strand	-
Start	1	End	655
Name	OJ991029_02.0121.C12.o2.tm	Method	TBLASTX:Maize
Start	452	End	655
GI	none	Score	200
Exons	452..655		

Seq. No.	37700	Seq. ID	OJ991029_02.0121.C13
Gene No.	77468	Strand	+
Start	1392	End	5894
Name	OJ991029_02.0121.C13.o2.np	Method	AAT/NAP
Start	1392	End	5894
GI	4680186	Score	367
Exons	1392..1445, 5694..5894		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37700	Seq. ID	OJ991029_02.0121.C13
Gene No.	77469	Strand	-
Start	337	End	5827
Name	OJ991029_02.0121.C13.o1.gs	Method	GENSCAN
Start	337	End	5648
GI	none	Score	.61
Exons	337..1146, 3142..3383, 3458..3724, 4669..4793, 4997..5099, 5573..5648		

Seq. No.	37700	Seq. ID	OJ991029_02.0121.C13
Gene No.	77469	Strand	-
Start	337	End	5827
Name	OJ991029_02.0121.C13.o1.gp	Method	AAT/GAP
Start	2036	End	5827
GI	uC-osflcyp033a04b1	Score	679
Exons	2036..2155, 5564..5827		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37701	Seq. ID	OJ991029_02.0121.C14
Gene No.	77470	Strand	-
Start	1	End	861
Name	OJ991029_02.0121.C14.o1.np	Method	AAT/NAP
Start	1	End	861

GI	4680179	Score	580
Exons	1..330, 364..861		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37701	Seq. ID	OJ991029_02.0121.C14
Gene No.	77470	Strand	-
Start	1	End	861
Name	OJ991029_02.0121.C14.o1.tw	Method	TBLASTX:Wheat
Start	46	End	423
GI	none	Score	57
Exons	46..300, 107..247, 379..423		

Seq. No.	37701	Seq. ID	OJ991029_02.0121.C14
Gene No.	77470	Strand	-
Start	1	End	861
Name	OJ991029_02.0121.C14.o1.gs	Method	GENSCAN
Start	252	End	792
GI	none	Score	.75
Exons	252..792		

Seq. No.	37701	Seq. ID	OJ991029_02.0121.C14
Gene No.	77470	Strand	-
Start	1	End	861
Name	OJ991029_02.0121.C14.o2.tw	Method	TBLASTX:Wheat
Start	622	End	858
GI	none	Score	179
Exons	622..858		

Seq. No.	37702	Seq. ID	OJ991209_06.0126.C2
Gene No.	77471	Strand	+
Start	599	End	1121
Name	OJ991209_06.0126.C2.o2.gp	Method	AAT/GAP
Start	599	End	1121
GI	4107129	Score	736
Exons	599..744, 825..1121		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	37702	Seq. ID	OJ991209_06.0126.C2
Gene No.	77471	Strand	+
Start	599	End	1121
Name	OJ991209_06.0126.C2.o1.gp	Method	AAT/GAP
Start	600	End	1121
GI	4107129	Score	734
Exons	600..744, 825..1121		
GI Descrip.	1330273/dbj D85055 RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	37702	Seq. ID	OJ991209_06.0126.C2
Gene No.	77472	Strand	-
Start	494	End	2075
Name	OJ991209_06.0126.C2.o1.np	Method	AAT/NAP
Start	494	End	2075
GI	6498458	Score	124
Exons	494..536, 1828..2075		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		



Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77473	Strand	+
Start	68	End	492
Name	OJ991209_06.0126.C3.o1.gs	Method	GENSCAN
Start	68	End	492
GI	none	Score	.65
Exons	68..157, 376..492		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77474	Strand	+
Start	756	End	1133
Name	OJ991209_06.0126.C3.o1.gp	Method	AAT/GAP
Start	756	End	1133
GI	2309880	Score	477
Exons	756..1133		

GI Descrip. 4521194/dbj|AB013613.1|AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77475	Strand	+
Start	5697	End	6182
Name	OJ991209_06.0126.C3.o3.gp	Method	AAT/GAP
Start	5697	End	6182
GI	4107129	Score	786
Exons	5697..6182		

GI Descrip. 1330273/dbj|D85055|RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77476	Strand	+
Start	6696	End	10499
Name	OJ991209_06.0126.C3.o1.np	Method	AAT/NAP
Start	6696	End	10499
GI	6630696	Score	5998
Exons	6696..10499		

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77477	Strand	-
Start	1805	End	1865
Name	OJ991209_06.0126.C3.o2.gp	Method	AAT/GAP
Start	1805	End	1865
GI	LIB3477-003-P1-K1-E9	Score	68
Exons	1805..1865		

GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77478	Strand	
Start	6591	End	7046
Name	OJ991209_06.0126.C3.o4.tw	Method	TBLASTX:Wheat
Start	6591	End	6987
GI	none	Score	122
Exons	6591..6725, 6765..6986, 6776..6967, 6805..6987, 6805..6987		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77478	Strand	
Start	6591	End	7046
Name	OJ991209_06.0126.C3.o5.tm	Method	TBLASTX:Maize
Start	6762	End	7046
GI	none	Score	280
Exons	6762..7046, 6785..7045		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77479	Strand	
Start	7533	End	7925
Name	OJ991209_06.0126.C3.o1.tm	Method	TBLASTX:Maize
Start	7533	End	7925
GI	none	Score	390
Exons	7533..7862, 7556..7840, 7557..7856, 7872..7925		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77480	Strand	
Start	7887	End	9080
Name	OJ991209_06.0126.C3.o5.ts	Method	TBLASTX:Soybean
Start	7887	End	8267
GI	none	Score	80
Exons	7887..8036, 8019..8267		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77480	Strand	
Start	7887	End	9080
Name	OJ991209_06.0126.C3.o4.tm	Method	TBLASTX:Maize
Start	8025	End	8489
GI	none	Score	298
Exons	8025..8489		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77480	Strand	
Start	7887	End	9080
Name	OJ991209_06.0126.C3.o5.tw	Method	TBLASTX:Wheat
Start	8132	End	8324
GI	none	Score	264
Exons	8132..8323, 8133..8324, 8133..8324		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77480	Strand	
Start	7887	End	9080
Name	OJ991209_06.0126.C3.o2.ts	Method	TBLASTX:Soybean
Start	8277	End	8675
GI	none	Score	187
Exons	8277..8498, 8279..8497, 8502..8675		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77480	Strand	
Start	7887	End	9080
Name	OJ991209_06.0126.C3.o1.tw	Method	TBLASTX:Wheat
Start	8325	End	9080
GI	none	Score	881
Exons	8325..9080, 8333..8830, 8530..8961, 8547..9080		

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o1.ts  
Start 9000  
GI 5509260  
Exons 9000..9464, 9095..9256  
GI Descrip. -

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Soybean  
End 9464  
Score 371

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o1.tc  
Start 9093  
GI none  
Exons 9093..9344, 9095..9265

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Cress  
End 9344  
Score 281

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o2.tm  
Start 9134  
GI none  
Exons 9134..9265, 9135..9599, 9289..9351, 9389..9496

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Maize  
End 9599  
Score 349

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o3.tw  
Start 9135  
GI none  
Exons 9135..9479, 9152..9313, 9474..9680, 9548..9652

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Wheat  
End 9680  
Score 299

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o3.ts  
Start 9533  
GI none  
Exons 9533..9661, 9534..9692, 9693..9881, 9695..9880, 9702..9884

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Soybean  
End 9884  
Score 143

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o3.tm  
Start 9684  
GI none  
Exons 9684..10031, 9690..10022, 9719..10030

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Maize  
End 10031  
Score 327

Seq. No. 37703  
Gene No. 77481  
Start 9000  
Name OJ991209\_06.0126.C3.o2.tw  
Start 9888  
GI none  
Exons 9888..9962, 9889..9963, 9889..9957, 9893..9976, 9893..9961, 9977..10363, 9978..10361, 9988..10362

Seq. ID OJ991209\_06.0126.C3  
Strand  
End 10363  
Method TBLASTX:Wheat  
End 10363  
Score 113

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77481	Strand	
Start	9000	End	10363
Name	OJ991209_06.0126.C3.o4.ts	Method	TBLASTX:Soybean
Start	9894	End	10235
GI	none	Score	94
Exons	9894..10007, 9929..9997, 10026..10235, 10031..10156		

Seq. No.	37703	Seq. ID	OJ991209_06.0126.C3
Gene No.	77482	Strand	
Start	10638	End	10990
Name	OJ991209_06.0126.C3.o6.tw	Method	TBLASTX:Wheat
Start	10638	End	10990
GI	none	Score	63
Exons	10638..10709, 10639..10710, 10688..10780, 10711..10782, 10713..10793, 10781..10855, 10782..10859, 10784..10852, 10785..10856, 10871..10990, 10882..10914, 10886..10960, 10967..10990		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77483	Strand	+
Start	6931	End	8917
Name	OJ991209_06.0126.C4.o1.np	Method	AAT/NAP
Start	6931	End	8917
GI	130582	Score	334
Exons	6931..6974, 8123..8917		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir  S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025  (X13777) ORF [Nicotiana tabacum]		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77484	Strand	+
Start	19769	End	22902
Name	OJ991209_06.0126.C4.o2.np	Method	AAT/NAP
Start	19769	End	22899
GI	6907089	Score	4117
Exons	19769..21030, 21131..22899		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77484	Strand	+
Start	19769	End	22902
Name	OJ991209_06.0126.C4.o7.gs	Method	GENSCAN
Start	19769	End	22902
GI	none	Score	.44
Exons	19769..19898, 19965..20232, 20302..21030, 21080..21995, 22027..22902		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77485	Strand	-
Start	1107	End	1676
Name	OJ991209_06.0126.C4.o1.gs	Method	GENSCAN
Start	1107	End	1676
GI	none	Score	.77
Exons	1107..1199, 1230..1317, 1671..1676		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77486	Strand	-
Start	2056	End	7135
Name	OJ991209_06.0126.C4.o2.gs	Method	GENSCAN
Start	2056	End	7135
GI	none	Score	.5
Exons	2056..2145, 2592..2721, 3034..3130, 7042..7135		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77487	Strand	-
Start	10670	End	11712
Name	OJ991209_06.0126.C4.o4.gs	Method	GENSCAN
Start	10670	End	11712
GI	none	Score	.54
Exons	10670..10811, 11302..11363, 11623..11712		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77488	Strand	-
Start	12284	End	12793
Name	OJ991209_06.0126.C4.o5.gs	Method	GENSCAN
Start	12284	End	12793
GI	none	Score	.94
Exons	12284..12793		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o3.tm	Method	TBLASTX:Maize
Start	14159	End	14863
GI	none	Score	137
Exons	14159..14260, 14366..14557, 14367..14552, 14555..14587, 14636..14776, 14651..14776, 14837..14863		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o1.tc	Method	TBLASTX:Cress
Start	14366	End	14863
GI	none	Score	138
Exons	14366..14557, 14397..14558, 14630..14794, 14837..14863		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o2.ts	Method	TBLASTX:Soybean
Start	14366	End	14797
GI	none	Score	179
Exons	14366..14590, 14382..14621, 14642..14797		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o8.tw	Method	TBLASTX:Wheat
Start	14372	End	19291
GI	none	Score	167
Exons	14372..14542, 14382..14543, 19196..19291		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o1.ts	Method	TBLASTX:Soybean
Start	14837	End	15578
GI	none	Score	71
Exons	14837..15034, 15071..15229, 15302..15445, 15431..15577, 15447..15578		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o7.tw	Method	TBLASTX:Wheat
Start	14957	End	24071
GI	none	Score	77
Exons	14957..15031, 23537..23662, 23541..23663, 23693..23767, 23836..24012, 23840..23968, 24011..24070, 24018..24071		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o8.gs	Method	GENSCAN
Start	23525	End	30275
GI	none	Score	.48
Exons	23525..23825, 23846..24062, 24157..25315, 25663..26657, 26784..27054, 27118..28464, 28507..29485, 29553..29761, 30201..30275		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o3.np	Method	AAT/NAP
Start	23528	End	28976
GI	6498441	Score	6991
Exons	23528..23809, 23872..24095, 24121..25294, 25466..26188, 26363..26497, 26681..27054, 27118..27581, 27912..28976		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o4.tw	Method	TBLASTX:Wheat
Start	24134	End	24515
GI	none	Score	235
Exons	24134..24514, 24165..24515		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o2.tm	Method	TBLASTX:Maize
Start	24309	End	24652
GI	none	Score	212
Exons	24309..24425, 24329..24652, 24342..24623		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o9.tw	Method	TBLASTX:Wheat
Start	24845	End	25157
GI	none	Score	57
Exons	24845..25120, 24981..25157		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o4.ts	Method	TBLASTX:Soybean
Start	24905	End	25471
GI	5666795	Score	67
Exons	24905..25120, 25160..25297, 25373..25471		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o5.tw	Method	TBLASTX:Wheat
Start	25160	End	25621
GI	none	Score	73
Exons	25160..25309, 25161..25298, 25353..25529, 25370..25594, 25397..25621		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o3.ts	Method	TBLASTX:Soybean
Start	26026	End	26397
GI	none	Score	90
Exons	26026..26397, 26237..26380		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o2.tw	Method	TBLASTX:Wheat
Start	26056	End	26476
GI	none	Score	305
Exons	26056..26475, 26081..26476		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o4.tm	Method	TBLASTX:Maize
Start	26149	End	26533
GI	none	Score	222
Exons	26149..26532, 26168..26533		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o1.tm	Method	TBLASTX:Maize
Start	26566	End	26916
GI	none	Score	68
Exons	26566..26676, 26569..26916, 26571..26771, 26582..26881		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o1.tw	Method	TBLASTX:Wheat
Start	26584	End	27046
GI	none	Score	221
Exons	26584..27045, 26590..27045, 26591..27046		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o5.ts	Method	TBLASTX:Soybean
Start	26641	End	27006
GI	none	Score	114
Exons	26641..26775, 26782..27006		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o3.tw	Method	TBLASTX:Wheat
Start	27211	End	27697
GI	none	Score	88
Exons	27211..27696, 27238..27477, 27242..27502, 27524..27697		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o6.tw	Method	TBLASTX:Wheat
Start	28435	End	28773
GI	none	Score	103
Exons	28435..28692, 28469..28708, 28675..28773, 28676..28756		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o5.tm	Method	TBLASTX:Maize
Start	28537	End	28785
GI	none	Score	105
Exons	28537..28785, 28538..28783		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o4.hp	Method	AAT/NAP
Start	29708	End	32249
GI	5042454	Score	70
Exons	29708..29763, 32145..32249		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	37704	Seq. ID	OJ991209_06.0126.C4
Gene No.	77489	Strand	-
Start	23525	End	32249
Name	OJ991209_06.0126.C4.o1.gp	Method	AAT/GAP
Start	30747	End	30849
GI	LIB3477-003-P1-K1-E9	Score	138
Exons	30747..30849		



GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
S 1 PRECURSOR (ORY S I).>gi\_1173557 (U31771) Ory s 1 [Oryza  
sativa]'

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77490	Strand	-
Start	1	End	345
Name	OJ991209_06.0126.C5.o1.gp	Method	AAT/GAP
Start	1	End	345
GI	4716752	Score	425
Exons	1..345		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77491	Strand	-
Start	1473	End	1931
Name	OJ991209_06.0126.C5.o1.np	Method	AAT/NAP
Start	1473	End	1931
GI	4335714	Score	186
Exons	1473..1931		
GI Descrip.	(AC006248) putative glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77492	Strand	-
Start	8252	End	8696
Name	OJ991209_06.0126.C5.o2.np	Method	AAT/NAP
Start	8252	End	8696
GI	1165322	Score	156
Exons	8252..8696		
GI Descrip.	(U44838) extensin [Glycine max]		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o3.np	Method	AAT/NAP
Start	9372	End	12271
GI	4680203	Score	1879
Exons	9372..10307, 10584..10813, 10973..12271		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o1.tw	Method	TBLASTX:Wheat
Start	9450	End	10700
GI	none	Score	76
Exons	9450..9569, 9562..9675, 9570..9674, 9693..9746, 9747..9797, 9749..9790, 9783..9947, 9814..9954, 9978..10160, 10075..10119, 10155..10700, 10168..10227, 10306..10656		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o3.ts	Method	TBLASTX:Soybean
Start	9516	End	9761
GI	none	Score	95
Exons	9516..9761, 9544..9759		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o2.tc	Method	TBLASTX:Cress
Start	9987	End	10409
GI	none	Score	60
Exons	9987..10160, 9991..10119, 10155..10409, 10168..10227		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o2.tm	Method	TBLASTX:Maize
Start	10344	End	10725
GI	none	Score	115
Exons	10344..10658, 10363..10659, 10666..10725, 10671..10724		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o3.tm	Method	TBLASTX:Maize
Start	10836	End	11024
GI	none	Score	73
Exons	10836..11024, 10837..10956		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o4.ts	Method	TBLASTX:Soybean
Start	11144	End	11378
GI	none	Score	71
Exons	11144..11377, 11226..11378		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o1.tm	Method	TBLASTX:Maize
Start	11213	End	11657
GI	none	Score	86
Exons	11213..11407, 11214..11432, 11414..11656, 11415..11657		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o3.tw	Method	TBLASTX:Wheat
Start	11252	End	11596
GI	none	Score	103
Exons	11252..11407, 11451..11546, 11453..11548, 11555..11596		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o1.tc	Method	TBLASTX:Cress
Start	11501	End	11851
GI	none	Score	91
Exons	11501..11851, 11502..11654, 11694..11843		

Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
----------	-------	---------	---------------------

Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o2.ts	Method	TBLASTX:Soybean
Start	11582	End	11851
GI	none	Score	131
Exons	11582..11851, 11583..11837		
Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o2.tw	Method	TBLASTX:Wheat
Start	11597	End	12256
GI	none	Score	87
Exons	11597..11722, 11729..11848, 11742..11831, 11861..12256, 11862..12053, 12144..12188		
Seq. No.	37705	Seq. ID	OJ991209_06.0126.C5
Gene No.	77493	Strand	-
Start	9372	End	12271
Name	OJ991209_06.0126.C5.o1.ts	Method	TBLASTX:Soybean
Start	11868	End	12205
GI	none	Score	169
Exons	11868..12152, 11870..12151, 11995..12156, 12156..12200, 12158..12205		
Seq. No.	37706	Seq. ID	OJ991209_06.0126.C6
Gene No.	77494	Strand	+
Start	996	End	1385
Name	OJ991209_06.0126.C6.o1.gp	Method	AAT/GAP
Start	996	End	1385
GI	LIB3477-003-P1-K1-E9	Score	112
Exons	996..1021, 1310..1385		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	37706	Seq. ID	OJ991209_06.0126.C6
Gene No.	77495	Strand	-
Start	1490	End	2156
Name	OJ991209_06.0126.C6.o1.np	Method	AAT/NAP
Start	1490	End	2156
GI	4218003	Score	326
Exons	1490..2156		
GI Descrip.	(AC006135) putative flavonol 3-O-glucosyltransferase [Arabidopsis thaliana]		
Seq. No.	37706	Seq. ID	OJ991209_06.0126.C6
Gene No.	77495	Strand	-
Start	1490	End	2156
Name	OJ991209_06.0126.C6.o1.tm	Method	TBLASTX:Maize
Start	1511	End	2126
GI	none	Score	102
Exons	1511..1600, 1718..1831, 1719..1832, 1832..1879, 1833..1901, 1911..1937, 1986..2126		
Seq. No.	37706	Seq. ID	OJ991209_06.0126.C6
Gene No.	77495	Strand	-

Start	1490	End	2156
Name	OJ991209_06.0126.C6.o1.tc	Method	TBLASTX:Cress
Start	1718	End	2129
GI	none	Score	70
Exons	1718..1831, 1749..1832, 1833..1901, 1837..1902, 1980..2129		

Seq. No.	37706	Seq. ID	OJ991209_06.0126.C6
Gene No.	77495	Strand	-
Start	1490	End	2156
Name	OJ991209_06.0126.C6.o1.ts	Method	TBLASTX:Soybean
Start	1718	End	2129
GI	none	Score	79
Exons	1718..1831, 1734..1832, 1833..1940, 1840..1965, 1995..2129		

Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77496	Strand	+
Start	108	End	1236
Name	OJ991209_06.0126.C7.o1.gs	Method	GENSCAN
Start	108	End	1236
GI	none	Score	.78
Exons	108..512, 824..960, 1053..1236		

Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77497	Strand	+
Start	2027	End	2864
Name	OJ991209_06.0126.C7.o1.gp	Method	AAT/GAP
Start	2027	End	2864
GI	533_1.R1084	Score	150
Exons	2027..2066, 2089..2185, 2828..2864		
GI Descrip.	'113172/sp P15543 ACP3 HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir_S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		

Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77498	Strand	+
Start	3987	End	7557
Name	OJ991209_06.0126.C7.o1.np	Method	AAT/NAP
Start	3987	End	7557
GI	5852172	Score	69
Exons	3987..4011, 7392..7557		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77499	Strand	-
Start	5660	End	11243
Name	OJ991209_06.0126.C7.o2.gs	Method	GENSCAN
Start	5660	End	11117
GI	none	Score	.44
Exons	5660..6319, 6594..6807, 6923..6951, 7470..7560, 10111..10222, 11067..11117		

Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77499	Strand	-
Start	5660	End	11243
Name	OJ991209_06.0126.C7.o1.tm	Method	TBLASTX:Maize
Start	10975	End	11243

GI	none	Score	162
Exons	10975..11238, 10998..11243		
Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77499	Strand	-
Start	5660	End	11243
Name	OJ991209_06.0126.C7.o2.np	Method	AAT/NAP
Start	10986	End	11243
GI	4914330	Score	306
Exons	10986..11243		
GI Descrip.	(AC005489) F14N23.16 [Arabidopsis thaliana]		
Seq. No.	37707	Seq. ID	OJ991209_06.0126.C7
Gene No.	77499	Strand	-
Start	5660	End	11243
Name	OJ991209_06.0126.C7.o1.tw	Method	TBLASTX:Wheat
Start	11094	End	11243
GI	none	Score	113
Exons	11094..11243, 11098..11238		
Seq. No.	37708	Seq. ID	OJ991209_06.0126.C8
Gene No.	77500	Strand	-
Start	1	End	9944
Name	OJ991209_06.0126.C8.o1.np	Method	AAT/NAP
Start	1	End	8289
GI	6714352	Score	296
Exons	1..273, 7981..8289		
GI Descrip.	(AC015986) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	37708	Seq. ID	OJ991209_06.0126.C8
Gene No.	77500	Strand	-
Start	1	End	9944
Name	OJ991209_06.0126.C8.o1.gs	Method	GENSCAN
Start	68	End	9944
GI	none	Score	.58
Exons	68..808, 4398..4518, 7425..7512, 7724..7791, 9766..9944		
Seq. No.	37708	Seq. ID	OJ991209_06.0126.C8
Gene No.	77501	Strand	-
Start	10703	End	11478
Name	OJ991209_06.0126.C8.o1.tm	Method	TBLASTX:Maize
Start	1	End	253
GI	none	Score	215
Exons	1..252, 2..253		
Seq. No.	37708	Seq. ID	OJ991209_06.0126.C8
Gene No.	77501	Strand	-
Start	10703	End	11478
Name	OJ991209_06.0126.C8.o1.ts	Method	TBLASTX:Soybean
Start	1	End	253
GI	none	Score	172
Exons	1..252, 5..253		
Seq. No.	37708	Seq. ID	OJ991209_06.0126.C8
Gene No.	77501	Strand	-
Start	10703	End	11478
Name	OJ991209_06.0126.C8.o2.gs	Method	GENSCAN

Start 10703  
GI none  
Exons 10703..11478

End 11478  
Score .69

Seq. No. 37709  
Gene No. 77502  
Start 123  
Name OJ991209\_06.0126.C9.o1.gp  
Start 123  
GI 2310235  
Exons 123..160, 572..711  
GI Descrip. 5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]

Seq. ID OJ991209\_06.0126.C9  
Strand +  
End 1218  
Method AAT/GAP  
End 711  
Score 306

Seq. No. 37709  
Gene No. 77502  
Start 123  
Name OJ991209\_06.0126.C9.o1.gs  
Start 572  
GI none  
Exons 572..1042

Seq. ID OJ991209\_06.0126.C9  
Strand +  
End 1218  
Method GENSCAN  
End 1042  
Score .62

Seq. No. 37709  
Gene No. 77502  
Start 123  
Name OJ991209\_06.0126.C9.o1.np  
Start 572  
GI 4680203  
Exons 572..1218  
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ991209\_06.0126.C9  
Strand +  
End 1218  
Method AAT/NAP  
End 1218  
Score 611

Seq. No. 37709  
Gene No. 77502  
Start 123  
Name OJ991209\_06.0126.C9.o1.tw  
Start 923  
GI none  
Exons 923..1030, 1013..1216, 1014..1217, 1021..1218, 1024..1218

Seq. ID OJ991209\_06.0126.C9  
Strand +  
End 1218  
Method TBLASTX:Wheat  
End 1218  
Score 103

Seq. No. 37710  
Gene No. 77503  
Start 1  
Name OJ991209\_06.0126.C10.o1.np  
Start 1  
GI 6742729  
Exons 1..1432  
GI Descrip. (AF121139) RIM2 protein [Oryza sativa]

Seq. ID OJ991209\_06.0126.C10  
Strand +  
End 2887  
Method AAT/NAP  
End 1432  
Score 2279

Seq. No. 37710  
Gene No. 77503  
Start 1  
Name OJ991209\_06.0126.C10.o4.gp  
Start 1  
GI 342\_1.R1084  
Exons 1..2048, 2167..2271, 2381..2887  
GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. ID OJ991209\_06.0126.C10  
Strand +  
End 2887  
Method AAT/GAP  
End 2887  
Score 4723

Seq. No.	37710	Seq. ID	OJ991209_06.0126.C10
Gene No.	77503	Strand	+
Start	1	End	2887
Name	OJ991209_06.0126.C10.o1.gs	Method	GENSCAN
Start	78	End	1964
GI	none	Score	.87
Exons	78..1964		

Seq. No.	37710	Seq. ID	OJ991209_06.0126.C10
Gene No.	77504	Strand	-
Start	1610	End	2027
Name	OJ991209_06.0126.C10.o2.tw	Method	TBLASTX:Wheat
Start	188	End	598
GI	none	Score	71
Exons	188..235, 189..251, 257..439, 261..479, 268..480, 507..596, 512..598, 513..596		

Seq. No.	37710	Seq. ID	OJ991209_06.0126.C10
Gene No.	77504	Strand	-
Start	1610	End	2027
Name	OJ991209_06.0126.C10.o1.tw	Method	TBLASTX:Wheat
Start	599	End	1916
GI	none	Score	544
Exons	599..1501, 600..1019, 925..1044, 1065..1517, 1185..1502, 1512..1556, 1516..1551, 1559..1654, 1563..1622, 1601..1741, 1602..1742, 1670..1750, 1755..1835, 1824..1916, 1850..1915		

Seq. No.	37710	Seq. ID	OJ991209_06.0126.C10
Gene No.	77504	Strand	-
Start	1610	End	2027
Name	OJ991209_06.0126.C10.o1.tm	Method	TBLASTX:Maize
Start	642	End	956
GI	none	Score	314
Exons	642..956, 653..814, 845..928		

Seq. No.	37710	Seq. ID	OJ991209_06.0126.C10
Gene No.	77504	Strand	-
Start	1610	End	2027
Name	OJ991209_06.0126.C10.o1.tc	Method	TBLASTX:Cress
Start	883	End	1335
GI	none	Score	175
Exons	883..1065, 887..1324, 887..1330, 1065..1334, 1084..1335, 1185..1334		

Seq. No.	37710	Seq. ID	OJ991209_06.0126.C10
Gene No.	77504	Strand	-
Start	1610	End	2027
Name	OJ991209_06.0126.C10.o1.gp	Method	AAT/GAP
Start	1610	End	2027
GI	LIB3431-028-P1-N1-A10	Score	836
Exons	1610..2027		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+

Start	1106	End	20143
Name	OJ991209_06.0126.C11.o1.np	Method	AAT/NAP
Start	1106	End	17036
GI	4680204	Score	983
Exons	1106..2542, 2617..3678, 3788..3961, 4058..4277, 4628..4723, 16995..17036		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+
Start	1106	End	20143
Name	OJ991209_06.0126.C11.o2.gp	Method	AAT/GAP
Start	3138	End	3578
GI	uC-osflcyp176f10b1	Score	700
Exons	3138..3578		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+
Start	1106	End	20143
Name	OJ991209_06.0126.C11.o3.gp	Method	AAT/GAP
Start	5135	End	5692
GI	21474_1.R1084	Score	234
Exons	5135..5291, 5660..5692		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+
Start	1106	End	20143
Name	OJ991209_06.0126.C11.o4.gp	Method	AAT/GAP
Start	9355	End	9604
GI	none	Score	453
Exons	9355..9604		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+
Start	1106	End	20143
Name	OJ991209_06.0126.C11.o5.gp	Method	AAT/GAP
Start	10911	End	11185
GI	none	Score	486
Exons	10911..11185		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+
Start	1106	End	20143
Name	OJ991209_06.0126.C11.o6.gp	Method	AAT/GAP
Start	12896	End	13333
GI	2427491	Score	714
Exons	12896..13265, 13298..13333		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77505	Strand	+
Start	1106	End	20143
Name	OJ991209_06.0126.C11.o3.gs	Method	GENSCAN



Start 12948  
GI none  
Exons 12948..14411

End 14411  
Score 1

Seq. No. 37711 Seq. ID OJ991209\_06.0126.C11  
Gene No. 77505 Strand +  
Start 1106 End 20143  
Name OJ991209\_06.0126.C11.o3.np Method AAT/NAP  
Start 13500 End 20143  
GI 4505197 Score 119  
Exons 13500..13716, 15402..15700, 20106..20143  
GI Descrip. myeloid/lymphoid or mixed-lineage leukemia 2 gi|2358285  
(AF010403) ALR [Homo sapiens]

Seq. No. 37711 Seq. ID OJ991209\_06.0126.C11  
Gene No. 77506 Strand -  
Start 8408 End 19859  
Name OJ991209\_06.0126.C11.o1.tw Method TBLASTX:Wheat  
Start 1749 End 2152  
GI none Score 62  
Exons 1749..1889, 1749..1859, 1751..1987, 1751..1900, 1852..2019,  
1982..2152, 2057..2152

Seq. No. 37711 Seq. ID OJ991209\_06.0126.C11  
Gene No. 77506 Strand -  
Start 8408 End 19859  
Name OJ991209\_06.0126.C11.o3.tw Method TBLASTX:Wheat  
Start 3605 End 4127  
GI none Score 60  
Exons 3605..3685, 3774..3956, 3824..3949, 4056..4127

Seq. No. 37711 Seq. ID OJ991209\_06.0126.C11  
Gene No. 77506 Strand -  
Start 8408 End 19859  
Name OJ991209\_06.0126.C11.o4.np Method AAT/NAP  
Start 8408 End 19859  
GI 6815103 Score 79  
Exons 8408..8449, 19679..19859  
GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. No. 37711 Seq. ID OJ991209\_06.0126.C11  
Gene No. 77506 Strand -  
Start 8408 End 19859  
Name OJ991209\_06.0126.C11.o2.ts Method TBLASTX:Soybean  
Start 12936 End 13703  
GI none Score 96  
Exons 12936..13139, 13107..13211, 13320..13487, 13565..13696,  
13566..13703

Seq. No. 37711 Seq. ID OJ991209\_06.0126.C11  
Gene No. 77506 Strand -  
Start 8408 End 19859  
Name OJ991209\_06.0126.C11.o1.tm Method TBLASTX:Maize  
Start 13628 End 14056  
GI none Score 134  
Exons 13628..13741, 13629..13754, 13682..13927, 13683..13934,  
13743..13931, 13937..14020, 13938..14021, 14000..14056

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77506	Strand	-
Start	8408	End	19859
Name	OJ991209_06.0126.C11.o1.tc	Method	TBLASTX:Cress
Start	13677	End	14165
GI	none	Score	41
Exons	13677..13703, 13764..13910, 13976..14119, 13980..14165		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77506	Strand	-
Start	8408	End	19859
Name	OJ991209_06.0126.C11.o1.ts	Method	TBLASTX:Soybean
Start	13764	End	14162
GI	none	Score	79
Exons	13764..13898, 13938..14162, 13940..14119		

Seq. No.	37711	Seq. ID	OJ991209_06.0126.C11
Gene No.	77506	Strand	-
Start	8408	End	19859
Name	OJ991209_06.0126.C11.o2.tw	Method	TBLASTX:Wheat
Start	13986	End	14347
GI	none	Score	204
Exons	13986..14156, 14000..14119, 14004..14186, 14288..14347		

Seq. No.	37712	Seq. ID	OJ991209_06.0126.C12
Gene No.	77507	Strand	+
Start	186	End	809
Name	OJ991209_06.0126.C12.o1.gs	Method	GENSCAN
Start	186	End	805
GI	none	Score	.53
Exons	186..805		

Seq. No.	37712	Seq. ID	OJ991209_06.0126.C12
Gene No.	77507	Strand	+
Start	186	End	809
Name	OJ991209_06.0126.C12.o1.ts	Method	TBLASTX:Soybean
Start	209	End	809
GI	none	Score	97
Exons	209..340, 210..356, 342..485, 558..716, 753..809		

Seq. No.	37713	Seq. ID	OJ991209_06.0126.C13
Gene No.	77508	Strand	-
Start	488	End	691
Name	OJ991209_06.0126.C13.o1.gs	Method	GENSCAN
Start	488	End	691
GI	none	Score	.88
Exons	488..532, 668..691		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77509	Strand	+
Start	2984	End	5486
Name	OJ991209_06.0126.C14.o2.np	Method	AAT/NAP
Start	2984	End	5486
GI	4680341	Score	600
Exons	2984..3077, 4762..4920, 4946..5029, 5088..5486		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77510	Strand	+
Start	9044	End	10479
Name	OJ991209_06.0126.C14.o6.gs	Method	GENSCAN
Start	9044	End	10479
GI	none	Score	.85
Exons	9044..9444, 9590..10124, 10186..10479		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77511	Strand	-
Start	1232	End	3343
Name	OJ991209_06.0126.C14.o1.np	Method	AAT/NAP
Start	1232	End	1859
GI	4538896	Score	323
Exons	1232..1859		
GI Descrip.	(AL049482) putative protein [Arabidopsis thaliana]		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77511	Strand	-
Start	1232	End	3343
Name	OJ991209_06.0126.C14.o2.gs	Method	GENSCAN
Start	1571	End	3343
GI	none	Score	.45
Exons	1571..1749, 3193..3343		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77512	Strand	-
Start	5301	End	6360
Name	OJ991209_06.0126.C14.o4.gs	Method	GENSCAN
Start	5301	End	6360
GI	none	Score	.82
Exons	5301..5394, 5906..5922, 6020..6223, 6286..6360		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77513	Strand	-
Start	7563	End	8142
Name	OJ991209_06.0126.C14.o5.gs	Method	GENSCAN
Start	7563	End	8142
GI	none	Score	.75
Exons	7563..7602, 8030..8142		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77514	Strand	-
Start	10901	End	11577
Name	OJ991209_06.0126.C14.o7.gs	Method	GENSCAN
Start	10901	End	11644
GI	none	Score	.79
Exons	10901..11204, 11520..11644		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77514	Strand	-
Start	10901	End	15177
Name	OJ991209_06.0126.C14.o4.np	Method	AAT/NAP
Start	11382	End	15177
GI	6069646	Score	212
Exons	11382..12136, 14542..14603, 15095..15177		

GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.o3.tm	Method	TBLASTX:Maize
Start	1206	End	1562
GI	none	Score	92
Exons	1206..1562, 1211..1558		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.o2.tm	Method	TBLASTX:Maize
Start	9744	End	10183
GI	none	Score	54
Exons	9744..9791, 9792..10019, 9794..10018, 10065..10124, 10070..10183		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.o1.ts	Method	TBLASTX:Soybean
Start	9867	End	10285
GI	none	Score	111
Exons	9867..10007, 10070..10156, 10071..10154, 10153..10278, 10154..10285		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.o4.tm	Method	TBLASTX:Maize
Start	11843	End	12323
GI	none	Score	82
Exons	11843..11911, 11947..12090, 12192..12323		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.o8.gs	Method	GENSCAN
Start	15100	End	20675
GI	none	Score	75
Exons	15100..15320, 17165..17291, 18228..18374, 18689..18814, 19989..20108, 20184..20309, 20487..20675		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.o5.np	Method	AAT/NAP
Start	16057	End	18543
GI	6691469	Score	168
Exons	16057..16122, 17230..17291, 18228..18374, 18463..18543		
GI Descrip.	(AB030709) AHMP2 [Triticum aestivum]		

Seq. No.	37714	Seq. ID	OJ991209_06.0126.C14
Gene No.	77515	Strand	-
Start	15100	End	20675
Name	OJ991209_06.0126.C14.ol.tm	Method	TBLASTX:Maize
Start	18225	End	20123
GI	none	Score	95
Exons	18225..18332, 18227..18346, 18228..18374, 18232..18375, 18457..18564, 18464..18556, 18663..18815, 18686..18817, 18686..18817, 19982..20074, 19989..20123, 19990..20085		

Seq. No.	37715	Seq. ID	OJ991209_06.0126.C15
Gene No.	77516	Strand	+
Start	2359	End	2464
Name	OJ991209_06.0126.C15.ol.gp	Method	AAT/GAP
Start	2359	End	2464
GI	5816518	Score	167
Exons	2359..2464		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	37715	Seq. ID	OJ991209_06.0126.C15
Gene No.	77517	Strand	-
Start	466	End	1720
Name	OJ991209_06.0126.C15.ol.gs	Method	GENSCAN
Start	466	End	1720
GI	none	Score	.68
Exons	466..772, 948..1002, 1178..1277, 1408..1442, 1636..1720		

Seq. No.	37715	Seq. ID	OJ991209_06.0126.C15
Gene No.	77517	Strand	-
Start	466	End	1720
Name	OJ991209_06.0126.C15.ol.np	Method	AAT/NAP
Start	1327	End	1442
GI	6721512	Score	79
Exons	1327..1442		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77518	Strand	+
Start	6632	End	8321
Name	OJ991209_06.0126.C16.o2.np	Method	AAT/NAP
Start	6632	End	8321
GI	6630736	Score	173
Exons	6632..7025, 8272..8321		
GI Descrip.	(AL132958) glucosyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77519	Strand	+
Start	8710	End	12769
Name	OJ991209_06.0126.C16.o3.np	Method	AAT/NAP
Start	8710	End	12769
GI	5295971	Score	231
Exons	8710..9499, 12697..12769		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77520	Strand	-
Start	488	End	4888
Name	OJ991209_06.0126.C16.o1.np	Method	AAT/NAP
Start	488	End	4888
GI	5091513	Score	1848
Exons	488..620, 1277..2910, 3667..3990, 4865..4888		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77521	Strand	-
Start	5212	End	5330
Name	OJ991209_06.0126.C16.o1.gp	Method	AAT/GAP
Start	5212	End	5330
GI	5816518	Score	165
Exons	5212..5330		
GI Descrip.	4521193/dbj AB013450.1 AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o2.tm	Method	TBLASTX:Maize
Start	6642	End	7054
GI	none	Score	69
Exons	6642..6728, 6737..6796, 6872..6913, 6918..7025, 6924..7028, 6926..7054		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o2.ts	Method	TBLASTX:Soybean
Start	6648	End	7010
GI	none	Score	70
Exons	6648..6704, 6737..6790, 6851..6913, 6930..7010		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o3.gs	Method	GENSCAN
Start	7314	End	13729
GI	none	Score	.41
Exons	7314..7408, 7564..7705, 8037..8207, 8342..8470, 10372..10515, 10709..10901, 10985..11041, 13660..13729		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o4.np	Method	AAT/NAP
Start	9779	End	14098
GI	6630556	Score	1027
Exons	9779..9935, 10372..10515, 10709..10901, 10985..11041, 11202..11305, 11784..11855, 11971..12089, 12541..12691, 13175..13221, 13304..13349, 13429..13574, 13660..13729, 13847..14098		
GI Descrip.	(AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis		

thaliana]

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o1.tm	Method	TBLASTX:Maize
Start	9822	End	13732
GI	none	Score	118
Exons	9822..9938, 10360..10521, 10361..10522, 10706..10912, 10708..10902, 10746..10913, 10990..11043, 10991..11044, 11202..11306, 11204..11308, 11206..11307, 11776..11868, 11968..12090, 11969..12091, 11970..12125, 12003..12131, 12530..12667, 12537..12695, 12538..12696, 13158..13223, 13169..13225, 13289..13351, 13302..13355, 13302..13352, 13426..13578, 13427..13579, 13431..13580, 13431..13580, 13658..13732, 13659..13730, 13660..13731		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o1.ts	Method	TBLASTX:Soybean
Start	9849	End	13732
GI	none	Score	101
Exons	9849..9938, 10369..10437, 10459..10527, 10697..10912, 10803..10913, 10983..11045, 10990..11043, 11193..11306, 11204..11308, 11206..11307, 11776..11871, 11959..12090, 11969..12097, 11978..12091, 12530..12667, 12540..12686, 13302..13352, 13302..13352, 13426..13578, 13433..13579, 13433..13579, 13658..13732, 13659..13730		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o2.tc	Method	TBLASTX:Cress
Start	10378	End	11279
GI	none	Score	88
Exons	10378..10428, 10459..10527, 10709..10774, 10754..10912, 10809..10916, 10990..11043, 10991..11044, 11001..11081, 11202..11279, 11204..11269		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o1.tw	Method	TBLASTX:Wheat
Start	10706	End	11047
GI	none	Score	201
Exons	10706..10912, 10709..10900, 10743..10904, 10990..11043, 10991..11047		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o1.tc	Method	TBLASTX:Cress
Start	11775	End	12699
GI	none	Score	77
Exons	11775..11861, 11929..12090, 11968..12090, 11975..12100, 11987..12094, 12530..12667, 12540..12686, 12553..12699		

Seq. No.	37716	Seq. ID	OJ991209_06.0126.C16
Gene No.	77522	Strand	-
Start	7314	End	14098
Name	OJ991209_06.0126.C16.o2.tw	Method	TBLASTX:Wheat
Start	11968	End	13319
GI	none	Score	169
Exons	11968..12090, 11969..12091, 12530..12697, 12530..12667, 13169..13225, 13302..13319		

Seq. No.	37717	Seq. ID	OJ990619_46.0103.C1
Gene No.	77523	Strand	-
Start	679	End	1354
Name	OJ990619_46.0103.C1.o1.gs	Method	GENSCAN
Start	679	End	1354
GI	none	Score	.86
Exons	679..772, 1003..1097, 1178..1354		

Seq. No.	37718	Seq. ID	OJ990619_46.0103.C2
Gene No.	77524	Strand	+
Start	486	End	674
Name	OJ990619_46.0103.C2.o1.np	Method	AAT/NAP
Start	486	End	674
GI	2498930	Score	45
Exons	486..551, 633..674		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	37718	Seq. ID	OJ990619_46.0103.C2
Gene No.	77524	Strand	+
Start	486	End	674
Name	OJ990619_46.0103.C2.o1.gs	Method	GENSCAN
Start	490	End	549
GI	none	Score	.94
Exons	490..549		

Seq. No.	37719	Seq. ID	OJ990619_46.0103.C3
Gene No.	77525	Strand	+
Start	336	End	377
Name	OJ990619_46.0103.C3.o1.gs	Method	GENSCAN
Start	336	End	377
GI	none	Score	.9
Exons	336..377		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77526	Strand	+
Start	8900	End	10386
Name	OJ990619_46.0103.C4.o2.gs	Method	GENSCAN
Start	8900	End	10386
GI	none	Score	.71
Exons	8900..9126, 10206..10386		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77527	Strand	+
Start	11436	End	13350
Name	OJ990619_46.0103.C4.o3.gs	Method	GENSCAN
Start	11436	End	13350



GI none Score .41  
Exons 11436..11643, 11962..12120, 13202..13350

Seq. No. 37720 Seq. ID OJ990619\_46.0103.C4  
Gene No. 77528 Strand +  
Start 21025 End 21267  
Name OJ990619\_46.0103.C4.o5.gs Method GENSCAN  
Start 21025 End 21267  
GI none Score .45  
Exons 21025..21267

Seq. No. 37720 Seq. ID OJ990619\_46.0103.C4  
Gene No. 77529 Strand +  
Start 22462 End 26076  
Name OJ990619\_46.0103.C4.o1.gp Method AAT/GAP  
Start 22401 End 22767  
GI 3768067 Score 675  
Exons 22401..22767

Seq. No. 37720 Seq. ID OJ990619\_46.0103.C4  
Gene No. 77529 Strand +  
Start 22462 End 26076  
Name OJ990619\_46.0103.C4.o6.gs Method GENSCAN  
Start 22462 End 26076  
GI none Score .63  
Exons 22462..22767, 22884..22961, 23062..23161, 25874..26076

Seq. No. 37720 Seq. ID OJ990619\_46.0103.C4  
Gene No. 77530 Strand +  
Start 27226 End 31322  
Name OJ990619\_46.0103.C4.o7.gs Method GENSCAN  
Start 27226 End 31322  
GI none Score .71  
Exons 27226..27453, 28482..28592, 29549..29718, 30275..30395,  
31059..31322

Seq. No. 37720 Seq. ID OJ990619\_46.0103.C4  
Gene No. 77530 Strand +  
Start 27226 End 31322  
Name OJ990619\_46.0103.C4.o5.np Method AAT/NAP  
Start 29067 End 29292  
GI 6069646 Score 91  
Exons 29067..29292

GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315)  
[Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to  
Arabidopsis thaliana chromosome II BAC F9013 genomic sequence,  
putative non-LTR retroelement reverse transcriptase. (AC006248)  
[Oryza sativa]

Seq. No. 37720 Seq. ID OJ990619\_46.0103.C4  
Gene No. 77531 Strand -  
Start 1 End 27370  
Name OJ990619\_46.0103.C4.o3.np Method AAT/NAP  
Start 1 End 27350  
GI 6751696 Score 93  
Exons 1..89, 10761..10862, 17941..18413, 27317..27350  
GI Descrip. (AC018908) hypothetical protein [Arabidopsis thaliana]

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77531	Strand	-
Start	1	End	27370
Name	OJ990619_46.0103.C4.o1.np	Method	AAT/NAP
Start	817	End	2249
GI	6907088	Score	1101
Exons	817..1199, 1699..1936, 2112..2249		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77531	Strand	-
Start	1	End	27370
Name	OJ990619_46.0103.C4.o4.gs	Method	GENSCAN
Start	15249	End	18190
GI	none	Score	.58
Exons	15249..15351, 15451..15562, 16081..16129, 17525..18190		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77531	Strand	-
Start	1	End	27370
Name	OJ990619_46.0103.C4.o2.np	Method	AAT/NAP
Start	17552	End	18166
GI	399325	Score	269
Exons	17552..18166		
GI Descrip.	HEME EXPORTER PROTEIN A (CYTOCHROME C-TYPE BIOGENESIS ATP-BINDING PROTEIN CYCV) gi 95141 pir  A39741 cytochrome c biogenesis protein CycV - Bradyrhizobium japonicum gi 152074 (M60874) putative [Bradyrhizobium japonicum]		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77531	Strand	-
Start	1	End	27370
Name	OJ990619_46.0103.C4.o2.gp	Method	AAT/GAP
Start	26921	End	27370
GI	none	Score	884
Exons	26921..27370		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77532	Strand	-
Start	28210	End	28730
Name	OJ990619_46.0103.C4.o1.tm	Method	TBLASTX:Maize
Start	17681	End	17951
GI	none	Score	200
Exons	17681..17842, 17681..17839, 17838..17951, 17840..17950		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77532	Strand	-
Start	28210	End	28730
Name	OJ990619_46.0103.C4.o2.tm	Method	TBLASTX:Maize
Start	18018	End	18187
GI	none	Score	166
Exons	18018..18152, 18020..18151, 18113..18187		

Seq. No.	37720	Seq. ID	OJ990619_46.0103.C4
Gene No.	77532	Strand	-
Start	28210	End	28730

Name	OJ990619_46.0103.C4.o4.np	Method	AAT/NAP
Start	28210	End	28730
GI	4586026	Score	131
Exons	28210..28236, 28452..28554, 28681..28730		
GI Descrip.	(AC007109) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77533	Strand	+
Start	428	End	501
Name	OJ990619_46.0103.C5.o1.gs	Method	GENSCAN
Start	428	End	501
GI	none	Score	1
Exons	428..501		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77534	Strand	+
Start	946	End	1869
Name	OJ990619_46.0103.C5.o2.gs	Method	GENSCAN
Start	946	End	1869
GI	none	Score	.97
Exons	946..1869		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77534	Strand	+
Start	946	End	1869
Name	OJ990619_46.0103.C5.o1.np	Method	AAT/NAP
Start	1085	End	1866
GI	6002794	Score	1294
Exons	1085..1866		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77535	Strand	+
Start	2187	End	6934
Name	OJ990619_46.0103.C5.o3.gs	Method	GENSCAN
Start	2187	End	6905
GI	none	Score	.97
Exons	2187..6905		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77535	Strand	+
Start	2187	End	6934
Name	OJ990619_46.0103.C5.o2.np	Method	AAT/NAP
Start	2358	End	6934
GI	4680179	Score	4619
Exons	2358..3414, 3517..6934		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77536	Strand	+
Start	18716	End	19619
Name	OJ990619_46.0103.C5.o1.gp	Method	AAT/GAP
Start	18716	End	19619
GI	294_6.R1084	Score	1362
Exons	18716..19619		
GI Descrip.	'541546/pir  S40611 2.0e-55 ubiquitin precursor - Volvox carteri >gi_395295_emb_CAA52290_(X74214) polyubiquitin [Volvox		

carteri]'

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77536	Strand	+
Start	18716	End	19619
Name	OJ990619_46.0103.C5.o5.np	Method	AAT/NAP
Start	18716	End	19409
GI	100934	Score	1098
Exons	18716..19409		
GI Descrip.	ubiquitin precursor Ubi-1 - maize gi 422037 pir  S20926 ubiquitin precursor Ubi-2 - maize gi 248337 bbs 94465 (S94464) polyubiquitin(ubiquitin) [maize, Peptide, 533 aa] [Zea mays] gi 248339 bbs 94467 (S94466) polyubiquitin(ubiquitin) [maize, Peptide, 533 aa] [Zea mays]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77536	Strand	+
Start	18716	End	19619
Name	OJ990619_46.0103.C5.o7.gs	Method	GENSCAN
Start	18716	End	19405
GI	none	Score	.92
Exons	18716..19405		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77536	Strand	+
Start	18716	End	19619
Name	OJ990619_46.0103.C5.o2.gp	Method	AAT/GAP
Start	18716	End	19619
GI	294_6.R1084	Score	1360
Exons	18716..19619		
GI Descrip.	'541546/pir  S40611 2.0e-55 ubiquitin precursor - Volvox carteri >gi_395295_emb_CAA52290_ (X74214) polyubiquitin [Volvox carteri]'		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77536	Strand	+
Start	18716	End	19619
Name	OJ990619_46.0103.C5.o3.gp	Method	AAT/GAP
Start	18716	End	19619
GI	294_6.R1084	Score	1358
Exons	18716..19619		
GI Descrip.	'541546/pir  S40611 2.0e-55 ubiquitin precursor - Volvox carteri >gi_395295_emb_CAA52290_ (X74214) polyubiquitin [Volvox carteri]'		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77537	Strand	+
Start	20972	End	22810
Name	OJ990619_46.0103.C5.o8.gs	Method	GENSCAN
Start	20972	End	22810
GI	none	Score	.92
Exons	20972..21596, 21756..22810		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77538	Strand	+
Start	25108	End	27355
Name	OJ990619_46.0103.C5.o9.gs	Method	GENSCAN

Start	25108	End	27328
GI	none	Score	.87
Exons	25108..25122, 25459..25626, 25715..25903, 26126..26294, 26916..27328		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77538	Strand	+
Start	25108	End	27355
Name	OJ990619_46.0103.C5.o6.np	Method	AAT/NAP
Start	25856	End	27325
GI	1890319	Score	297
Exons	25856..25903, 26126..26294, 26916..27325		
GI Descrip.	(Y11792) peroxidase ATP27a [Arabidopsis thaliana]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77538	Strand	+
Start	25108	End	27355
Name	OJ990619_46.0103.C5.o7.np	Method	AAT/NAP
Start	27050	End	27355
GI	2599086	Score	197
Exons	27050..27355		
GI Descrip.	(AF028073) peroxidase [Pinus taeda]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77539	Strand	+
Start	30229	End	30897
Name	OJ990619_46.0103.C5.o8.np	Method	AAT/NAP
Start	30200	End	30894
GI	4508081	Score	219
Exons	30200..30894		
GI Descrip.	(AC005882) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77539	Strand	+
Start	30229	End	30897
Name	OJ990619_46.0103.C5.o10.gs	Method	GENSCAN
Start	30229	End	30897
GI	none	Score	1
Exons	30229..30897		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77540	Strand	+
Start	49917	End	50391
Name	OJ990619_46.0103.C5.o13.np	Method	AAT/NAP
Start	49768	End	50391
GI	2982283	Score	129
Exons	49768..50061, 50104..50391		
GI Descrip.	(AF051226) PREG-like protein [Picea mariana]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77540	Strand	+
Start	49917	End	50391
Name	OJ990619_46.0103.C5.o12.gs	Method	GENSCAN
Start	49917	End	50322
GI	none	Score	.77
Exons	49917..50322		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77541	Strand	-
Start	7097	End	8914
Name	OJ990619_46.0103.C5.o3.np	Method	AAT/NAP
Start	7097	End	8914
GI	6907086	Score	1070
Exons	7097..7475, 7584..7693, 7915..8084, 8145..8914		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77542	Strand	-
Start	9627	End	17316
Name	OJ990619_46.0103.C5.o4.np	Method	AAT/NAP
Start	9627	End	13015
GI	4680186	Score	192
Exons	9627..10045, 10575..10650, 12923..13015		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77542	Strand	-
Start	9627	End	17316
Name	OJ990619_46.0103.C5.o6.gs	Method	GENSCAN
Start	12861	End	17316
GI	none	Score	.47
Exons	12861..13613, 15366..15562, 15677..16020, 16373..16661, 16823..16933, 17274..17316		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o14.tw	Method	TBLASTX:Wheat
Start	2589	End	2954
GI	none	Score	260
Exons	2589..2954, 2594..2695		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o16.tm	Method	TBLASTX:Maize
Start	2835	End	3236
GI	none	Score	241
Exons	2835..3236		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o18.tm	Method	TBLASTX:Maize
Start	3545	End	3871
GI	none	Score	211
Exons	3545..3658, 3546..3869, 3552..3686, 3788..3871		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o13.tw	Method	TBLASTX:Wheat
Start	3551	End	3950
GI	none	Score	166

Exons	3551..3706, 3552..3773, 3782..3901, 3786..3950		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o5.tw	Method	TBLASTX:Wheat
Start	4097	End	4580
GI	none	Score	542
Exons	4097..4552, 4098..4580, 4125..4568		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o11.tm	Method	TBLASTX:Maize
Start	4110	End	4397
GI	none	Score	332
Exons	4110..4397, 4211..4396		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o7.tm	Method	TBLASTX:Maize
Start	4467	End	4967
GI	none	Score	159
Exons	4467..4646, 4632..4967, 4676..4945		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o2.ts	Method	TBLASTX:Soybean
Start	4521	End	4916
GI	none	Score	56
Exons	4521..4553, 4521..4553, 4538..4633, 4557..4916, 4673..4888		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o8.tw	Method	TBLASTX:Wheat
Start	4629	End	4925
GI	none	Score	369
Exons	4629..4925, 4673..4888		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o3.tw	Method	TBLASTX:Wheat
Start	4931	End	5357
GI	none	Score	605
Exons	4931..5320, 4932..5357, 4989..5342, 5218..5355		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o12.ts	Method	TBLASTX:Soybean
Start	4938	End	5183
GI	none	Score	212
Exons	4938..5183		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o5.tm	Method	TBLASTX:Maize
Start	5004	End	5362
GI	none	Score	475
Exons	5004..5357, 5006..5305, 5081..5362		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o4.tw	Method	TBLASTX:Wheat
Start	5400	End	5924
GI	none	Score	586
Exons	5400..5924, 5552..5920		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o7.tc	Method	TBLASTX:Cress
Start	5631	End	5948
GI	none	Score	99
Exons	5631..5804, 5652..5750, 5805..5948, 5807..5932		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o4.ts	Method	TBLASTX:Soybean
Start	5717	End	5972
GI	none	Score	302
Exons	5717..5962, 5724..5972, 5844..5972		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o8.tm	Method	TBLASTX:Maize
Start	5772	End	6062
GI	none	Score	381
Exons	5772..6062, 5783..5962, 5844..6059		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o2.tw	Method	TBLASTX:Wheat
Start	5931	End	6557
GI	none	Score	669
Exons	5931..6557, 6026..6433		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o3.tm	Method	TBLASTX:Maize
Start	6114	End	6707
GI	none	Score	221
Exons	6114..6272, 6117..6263, 6119..6265, 6268..6351, 6269..6412, 6270..6707, 6390..6539, 6488..6697, 6612..6707		



Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o7.tw	Method	TBLASTX:Wheat
Start	6558	End	6890
GI	none	Score	379
Exons	6558..6890, 6565..6663, 6597..6665, 6653..6838, 6720..6869		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o19.tm	Method	TBLASTX:Maize
Start	6714	End	6875
GI	none	Score	193
Exons	6714..6872, 6717..6875		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o12.tm	Method	TBLASTX:Maize
Start	12840	End	13115
GI	none	Score	331
Exons	12840..13115		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o9.tw	Method	TBLASTX:Wheat
Start	12840	End	13115
GI	none	Score	332
Exons	12840..13115		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o3.tc	Method	TBLASTX:Cress
Start	12861	End	13115
GI	none	Score	340
Exons	12861..13115		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o3.ts	Method	TBLASTX:Soybean
Start	12861	End	13115
GI	none	Score	88
Exons	12861..13115, 12868..12960, 13057..13080		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o10.tc	Method	TBLASTX:Cress
Start	15306	End	15989
GI	none	Score	73
Exons	15306..15563, 15327..15536, 15454..15564, 15774..15989		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o9.ts	Method	TBLASTX:Soybean
Start	15324	End	16019
GI	none	Score	75
Exons	15324..15413, 15453..15653, 15454..15606, 15768..15854, 15876..16019		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o9.tm	Method	TBLASTX:Maize
Start	15348	End	16637
GI	none	Score	313
Exons	15348..15404, 15447..15509, 15531..15590, 15771..16088, 15771..16055, 16370..16549, 16372..16548, 16372..16563, 16546..16614, 16551..16637, 16552..16626, 16578..16637		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o1.tc	Method	TBLASTX:Cress
Start	18677	End	19410
GI	none	Score	1096
Exons	18677..19369, 18694..19140, 18697..19140, 18697..19140, 18697..19140, 18697..19140, 18715..19395, 18716..19369, 18716..19369, 18716..19369, 18716..19171, 18716..19399, 18718..19395, 18718..19410, 18834..19175, 18944..19399, 18961..19398, 19174..19398		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o1.tm	Method	TBLASTX:Maize
Start	18691	End	19413
GI	none	Score	1093
Exons	18691..19134, 18692..19369, 18697..19389, 18715..19134, 18715..19002, 18716..19228, 18716..19225, 18834..19175, 18894..19175, 18916..19413, 18934..19140, 18943..19230, 19172..19288, 19186..19368, 19186..19230, 19186..19362, 19189..19362, 19338..19388, 19343..19399, 19343..19390		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o1.ts	Method	TBLASTX:Soybean
Start	18694	End	19413
GI	none	Score	387
Exons	18694..19140, 18694..19140, 18703..19140, 18703..19086, 18706..19302, 18710..19369, 18716..19324, 18843..19148, 18847..18933, 18848..18919, 18925..19413, 18945..19175, 19070..19288, 19075..19140, 19076..19147, 19076..19147, 19174..19413, 19189..19311, 19189..19368, 19189..19368, 19189..19368, 19218..19397, 19303..19368, 19304..19369		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
----------	-------	---------	---------------------

Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o1.tw	Method	TBLASTX:Wheat
Start	18695	End	19413
GI	none	Score	1082
Exons	18695..18943, 18697..18945, 18713..19369, 18715..19392, 18715..19140, 18715..19140, 18716..19174, 18834..19163, 18834..19160, 18943..19368, 18946..19398, 19067..19396, 19172..19396, 19174..19413, 19189..19368, 19338..19397, 19343..19402		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o12.tw	Method	TBLASTX:Wheat
Start	21095	End	22498
GI	none	Score	164
Exons	21095..21319, 21254..21586, 21373..21585, 22093..22497, 22133..22498, 22322..22438		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o11.ts	Method	TBLASTX:Soybean
Start	21107	End	22357
GI	none	Score	67
Exons	21107..21226, 21152..21529, 21155..21283, 21449..21592, 22127..22297, 22217..22357		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o6.tm	Method	TBLASTX:Maize
Start	21110	End	22765
GI	none	Score	182
Exons	21110..21319, 21116..21307, 21127..21318, 21206..21394, 21263..21598, 21373..21597, 21419..21589, 21764..22006, 21767..22006, 22097..22564, 22102..22671, 22127..22366, 22133..22390, 22133..22765		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o5.tc	Method	TBLASTX:Cress
Start	21167	End	22630
GI	none	Score	136
Exons	21167..21319, 21470..21601, 22237..22608, 22238..22630		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o5.ts	Method	TBLASTX:Soybean
Start	22358	End	22812
GI	none	Score	301
Exons	22358..22807, 22381..22812		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5

Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o2.tc	Method	TBLASTX:Cress
Start	25480	End	27340
GI	none	Score	141
Exons	25480..25632, 25512..25631, 25703..25744, 25760..25906, 26132..26224, 26210..26320, 26887..27102, 26888..27340		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o10.tw	Method	TBLASTX:Wheat
Start	25488	End	25897
GI	none	Score	135
Exons	25488..25622, 25489..25632, 25703..25897, 25762..25875, 25781..25897		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o10.tm	Method	TBLASTX:Maize
Start	25489	End	25915
GI	none	Score	150
Exons	25489..25632, 25497..25622, 25703..25915, 25714..25875		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o6.ts	Method	TBLASTX:Soybean
Start	25489	End	27325
GI	none	Score	138
Exons	25489..25632, 25599..25631, 25760..25897, 25762..25878, 25763..25897, 26125..26229, 26126..26215, 26888..27034, 26916..27008, 27049..27114, 27056..27196, 27205..27324, 27212..27325		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o14.tm	Method	TBLASTX:Maize
Start	26132	End	27328
GI	none	Score	113
Exons	26132..26248, 26881..27003, 26888..26980, 26990..27043, 26993..27043, 27050..27193, 27050..27196, 27217..27321, 27218..27325, 27251..27328		
Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o11.gs	Method	GENSCAN
Start	32684	End	46768
GI	none	Score	.7
Exons	32684..34791, 34947..35223, 35445..35627, 38460..38678, 38773..39059, 39218..39899, 39992..40133, 40359..40522, 40609..40674, 41977..42100, 42814..42964, 44003..44075, 44566..44736, 45048..45114, 45662..45713, 46657..46768		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o7.ts	Method	TBLASTX:Soybean
Start	32687	End	33001
GI	none	Score	268
Exons	32687..33001		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o17.tm	Method	TBLASTX:Maize
Start	32690	End	32989
GI	none	Score	102
Exons	32690..32989, 32694..32969		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o9.tc	Method	TBLASTX:Cress
Start	32711	End	32998
GI	none	Score	72
Exons	32711..32998, 32799..32912		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o6.tw	Method	TBLASTX:Wheat
Start	32771	End	33172
GI	none	Score	277
Exons	32771..33004, 32771..33031, 33034..33165, 33040..33162, 33041..33172, 33059..33172		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o2.tm	Method	TBLASTX:Maize
Start	33049	End	33748
GI	none	Score	166
Exons	33049..33237, 33058..33576, 33062..33592, 33063..33470, 33233..33583, 33578..33748, 33591..33746		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o10.ts	Method	TBLASTX:Soybean
Start	33062	End	33439
GI	none	Score	221
Exons	33062..33439		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o13.tm	Method	TBLASTX:Maize
Start	33750	End	34034
GI	none	Score	264
Exons	33750..34034, 33754..34032, 33755..34033		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o11.np	Method	AAT/NAP
Start	34989	End	35145
GI	2943742	Score	43
Exons	34989..35145		
GI Descrip.	(AB002266) XA1 [Oryza sativa]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o4.gp	Method	AAT/GAP
Start	37139	End	38380
GI	969005	Score	642
Exons	37139..37446, 38217..38380		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o4.tm	Method	TBLASTX:Maize
Start	37149	End	38881
GI	none	Score	175
Exons	37149..37331, 37154..37333, 37159..37332, 37163..37336, 37340..37447, 37340..37447, 37341..37448, 37362..37451, 37363..37455, 38213..38374, 38215..38373, 38457..38678, 38461..38691, 38461..38685, 38773..38826, 38830..38880, 38831..38881		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o11.tw	Method	TBLASTX:Wheat
Start	37359	End	38538
GI	none	Score	106
Exons	37359..37448, 37361..37447, 37365..37451, 37366..37452, 38203..38373, 38213..38374, 38216..38374, 38217..38375, 38457..38537, 38460..38537, 38461..38538		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o6.tc	Method	TBLASTX:Cress
Start	38213	End	38498
GI	none	Score	140
Exons	38213..38371, 38215..38373, 38457..38498		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o8.tc	Method	TBLASTX:Cress
Start	39615	End	39890
GI	none	Score	65
Exons	39615..39890, 39616..39735, 39781..39888		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
----------	-------	---------	---------------------

Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o5.gp	Method	AAT/GAP
Start	39634	End	40241
GI	none	Score	998
Exons	39634..40241		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o12.np	Method	AAT/NAP
Start	42515	End	44463
GI	4680186	Score	165
Exons	42515..42716, 44443..44463		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o4.tc	Method	TBLASTX:Cress
Start	43882	End	44640
GI	none	Score	51
Exons	43882..43926, 43883..43939, 44004..44072, 44005..44061, 44184..44228, 44191..44265, 44193..44267, 44333..44452, 44361..44453, 44560..44640, 44570..44614		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o15.tm	Method	TBLASTX:Maize
Start	45276	End	46783
GI	none	Score	94
Exons	45276..45377, 45280..45366, 45643..45687, 45659..45715, 45663..45716, 45810..45914, 45810..45917, 45811..45915, 45811..45924, 46478..46582, 46482..46571, 46649..46780, 46656..46775, 46658..46783		

Seq. No.	37721	Seq. ID	OJ990619_46.0103.C5
Gene No.	77543	Strand	-
Start	32684	End	46783
Name	OJ990619_46.0103.C5.o8.ts	Method	TBLASTX:Soybean
Start	45659	End	46769
GI	none	Score	35
Exons	45659..45718, 45675..45752, 45811..45924, 45823..45909, 46478..46582, 46479..46571, 46638..46769, 46649..46768, 46656..46769		

Seq. No.	37722	Seq. ID	OJ990619_46.0103.C6
Gene No.	77544	Strand	+
Start	959	End	1485
Name	OJ990619_46.0103.C6.o1.np	Method	AAT/NAP
Start	959	End	1485
GI	2982283	Score	93
Exons	959..1112, 1294..1485		
GI Descrip.	(AF051226) PREG-like protein [Picea mariana]		

Seq. No.	37722	Seq. ID	OJ990619_46.0103.C6
----------	-------	---------	---------------------

Gene No.	77545	Strand	-
Start	930	End	2478
Name	OJ990619_46.0103.C6.o1.gs	Method	GENSCAN
Start	930	End	2478
GI	none	Score	.94
Exons	930..1414, 1445..1597, 2421..2478		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77546	Strand	+
Start	607	End	2958
Name	OJ990619_46.0103.C7.o1.gs	Method	GENSCAN
Start	607	End	2498
GI	none	Score	.81
Exons	607..657, 982..1215, 1304..1351, 1455..1511, 1594..1695, 2211..2312, 2385..2498		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77546	Strand	+
Start	607	End	2958
Name	OJ990619_46.0103.C7.o1.gp	Method	AAT/GAP
Start	2015	End	2958
GI	13803.1.R1084	Score	947
Exons	2015..2093, 2211..2312, 2385..2507, 2707..2958		
GI Descrip.	'3935138 9.0e-30 (AC005106) T25N20.2 [Arabidopsis thaliana]'		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77547	Strand	+
Start	16181	End	16564
Name	OJ990619_46.0103.C7.o4.gs	Method	GENSCAN
Start	16181	End	16564
GI	none	Score	.99
Exons	16181..16564		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77548	Strand	+
Start	23717	End	32197
Name	OJ990619_46.0103.C7.o6.gs	Method	GENSCAN
Start	23717	End	32197
GI	none	Score	.77
Exons	23717..23801, 23882..24007, 24324..24483, 24700..24731, 26044..26180, 26582..26828, 27408..31568, 31998..32197		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77548	Strand	+
Start	23717	End	32197
Name	OJ990619_46.0103.C7.o2.np	Method	AAT/NAP
Start	27416	End	31585
GI	4234852	Score	4435
Exons	27416..27576, 27619..31585		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77549	Strand	-
Start	3212	End	7642
Name	OJ990619_46.0103.C7.o2.gs	Method	GENSCAN
Start	3212	End	7642
GI	none	Score	.79



Exons 3212..3264, 3278..3353, 3463..3552, 3610..3686, 3790..3995, 4996..5126, 5493..5524, 5688..5800, 6052..6356, 6459..6544, 6661..6736, 7313..7642

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77549	Strand	-
Start	3212	End	7642
Name	OJ990619_46.0103.C7.o2.gp	Method	AAT/GAP
Start	5086	End	6243
GI	none	Score	651
Exons	5086..5126, 5493..5524, 5688..5800, 6052..6243		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77550	Strand	-
Start	8684	End	15544
Name	OJ990619_46.0103.C7.o3.gs	Method	GENSCAN
Start	8684	End	15544
GI	none	Score	.8
Exons	8684..9464, 10522..10550, 10607..10816, 10906..11412, 11673..11894, 12365..12495, 13047..14055, 14140..14214, 14305..14376, 14463..14638, 14804..14956, 15049..15544		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77550	Strand	-
Start	8684	End	15544
Name	OJ990619_46.0103.C7.o1.np	Method	AAT/NAP
Start	10554	End	14381
GI	2443887	Score	1458
Exons	10554..10816, 10906..11421, 11712..11894, 12365..12495, 13047..13738, 13865..14055, 14140..14214, 14305..14381		
GI Descrip.	(AC002294) Similar to transcription factor gb Z46606 1658307 and others [Arabidopsis thaliana]		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77551	Strand	-
Start	17989	End	23001
Name	OJ990619_46.0103.C7.o5.gs	Method	GENSCAN
Start	17989	End	23001
GI	none	Score	.61
Exons	17989..18508, 19414..19529, 19927..20088, 20457..20579, 20996..21223, 22771..23001		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77551	Strand	-
Start	17989	End	23001
Name	OJ990619_46.0103.C7.o3.gp	Method	AAT/GAP
Start	19659	End	21227
GI	21070.1.R1084	Score	1452
Exons	19659..20088, 20457..20579, 20996..21227		
GI Descrip.	'4928460/gb AAD33596.1 AF133127_1 6.0e-28 (AF133127) thioredoxin h [Hevea brasiliensis]'		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77551	Strand	-
Start	17989	End	23001
Name	OJ990619_46.0103.C7.o4.gp	Method	AAT/GAP
Start	22224	End	22690

GI	none	Score	875
Exons	22224..22690		
Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77552	Strand	-
Start	33955	End	38777
Name	OJ990619_46.0103.C7.o7.gs	Method	GENSCAN
Start	33955	End	38777
GI	none	Score	.92
Exons	33955..34098, 34556..34657, 34750..34854, 34936..35040, 35196..35277, 35565..35767, 35845..36003, 36356..36465, 36575..36716, 36855..37001, 37084..37158, 37234..37443, 37534..37737, 37825..37944, 38054..38163, 38344..38488, 38577..38777		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77552	Strand	-
Start	33955	End	38777
Name	OJ990619_46.0103.C7.o5.gp	Method	AAT/GAP
Start	34159	End	34978
GI	25545_1.R1084	Score	1247
Exons	34159..34657, 34750..34854, 34936..34978		
GI Descrip.	'1170619/sp Q07970 KATA_ARATH_5.0e-47 KINESIN-LIKE PROTEIN A >gi_479594_pir_S34830 kinesin-related protein katA - Arabidopsis thaliana >gi_303502_dbj_BAA01972_ (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] >gi_2911084_emb_CAA17546.1_ (AL021960) kinesin-related protein katA [Arabidopsis thaliana]'		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77552	Strand	-
Start	33955	End	38777
Name	OJ990619_46.0103.C7.o3.np	Method	AAT/NAP
Start	34481	End	38494
GI	1170619	Score	1532
Exons	34481..34657, 34750..34854, 34936..35040, 35196..35277, 35565..35767, 35845..36003, 36356..36465, 36575..36716, 36855..37001, 37084..37158, 37234..37439, 37530..37737, 37825..37944, 38054..38163, 38344..38494		
GI Descrip.	KINESIN-LIKE PROTEIN A gi 479594 pir  S34830 kinesin-related protein katA - Arabidopsis thaliana gi 303502 dbj BAA01972  (D11371) kinesin-like motor protein heavy chain [Arabidopsis thaliana] gi 2911084 emb CAA17546.1  (AL021960) kinesin-related protein katA [Arabidopsis thaliana]		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77552	Strand	-
Start	33955	End	38777
Name	OJ990619_46.0103.C7.o6.gp	Method	AAT/GAP
Start	37906	End	38771
GI	uC-osflM202097d05b1	Score	866
Exons	37906..37944, 38054..38163, 38344..38488, 38577..38771		
GI Descrip.	'1170620/sp P46864 KATB_ARATH_4.0e-19 KINESIN-LIKE PROTEIN B >gi_1084341_pir_S48019_kinesin-related protein katB - Arabidopsis thaliana >gi_1438842_dbj_BAA04673_ (D21137) heavy chain polypeptide of kinesin-like protein [Arabidopsis thaliana]'		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77553	Strand	-
Start	38895	End	39257
Name	OJ990619_46.0103.C7.o7.gp	Method	AAT/GAP
Start	38895	End	39257
GI	63359_1.R1084	Score	645
Exons	38895..39257		
GI Descrip.	'5262763/emb CAB45911.1  9.0e-09 (AL080283) putative protein [Arabidopsis thaliana]'		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o4.tm	Method	TBLASTX:Maize
Start	980	End	2903
GI	none	Score	168
Exons	980..1165, 980..1159, 1146..1214, 1162..1224, 1164..1214, 1174..1218, 1298..1369, 1306..1350, 1457..1507, 1458..1511, 1458..1511, 1459..1512, 1581..1652, 1589..1687, 1590..1682, 1591..1692, 2033..2110, 2034..2096, 2202..2312, 2210..2311, 2379..2498, 2384..2497, 2386..2508, 2725..2805, 2726..2806, 2788..2814, 2789..2812, 2871..2903		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o6.ts	Method	TBLASTX:Soybean
Start	1144	End	2486
GI	none	Score	42
Exons	1144..1209, 1146..1211, 1174..1212, 1298..1354, 1306..1359, 1307..1369, 1454..1507, 1455..1553, 1470..1511, 1591..1692, 1593..1652, 1636..1701, 2028..2099, 2195..2311, 2202..2312, 2375..2479, 2379..2486, 2384..2479		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o4.tc	Method	TBLASTX:Cress
Start	1307	End	2486
GI	none	Score	65
Exons	1307..1369, 1309..1353, 1454..1510, 1455..1553, 1588..1692, 1591..1692, 1602..1700, 1604..1693, 2034..2096, 2195..2296, 2199..2312, 2202..2312, 2379..2486, 2384..2479, 2385..2480		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o5.tm	Method	TBLASTX:Maize
Start	3246	End	5127
GI	none	Score	105
Exons	3246..3353, 3255..3356, 3460..3522, 3464..3520, 3605..3694, 3610..3696, 3610..3687, 3786..3860, 3788..3862, 3788..3862, 3915..3992, 3926..3991, 4126..4176, 4129..4185, 4130..4207, 4291..4383, 4308..4355, 4500..4649, 4560..4646, 4561..4650, 4993..5058, 4993..5058, 4995..5072, 4998..5078, 5070..5126, 5071..5127, 5083..5127		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o3.tw	Method	TBLASTX:Wheat
Start	3893	End	4362
GI	none	Score	117
Exons	3893..4018, 3897..4007, 3913..4008, 4034..4090, 4037..4090, 4072..4200, 4121..4204, 4122..4205, 4134..4208, 4295..4360, 4296..4358, 4297..4362		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o8.tm	Method	TBLASTX:Maize
Start	6160	End	7413
GI	none	Score	227
Exons	6160..6357, 6181..6357, 6231..6365, 6455..6547, 6456..6545, 6458..6547, 6646..6738, 6659..6739, 7306..7413, 7313..7387		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o11.ts	Method	TBLASTX:Soybean
Start	8843	End	9193
GI	none	Score	57
Exons	8843..8908, 8999..9193		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o1.tm	Method	TBLASTX:Maize
Start	10087	End	12497
GI	none	Score	125
Exons	10087..10206, 10088..10249, 10605..10817, 10607..10819, 10675..10818, 10855..11148, 10903..11151, 10904..11164, 10904..11155, 10905..11156, 11209..11412, 11237..11413, 11238..11429, 11311..11430, 11672..11755, 11673..11891, 11685..11888, 12359..12496, 12360..12497, 12365..12496		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o3.tc	Method	TBLASTX:Cress
Start	10087	End	10819
GI	none	Score	110
Exons	10087..10206, 10097..10207, 10604..10783, 10607..10819, 10611..10817		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o9.ts	Method	TBLASTX:Soybean
Start	10703	End	11420
GI	none	Score	68
Exons	10703..10831, 10706..10780, 10710..10817, 10726..10821, 10903..11055, 10904..11053, 11239..11415, 11273..11416,		

11331..11420, 11366..11416

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o10.ts	Method	TBLASTX:Soybean
Start	11673	End	11911
GI	none	Score	105
Exons	11673..11897, 11733..11897, 11803..11898, 11807..11911		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o5.ts	Method	TBLASTX:Soybean
Start	12354	End	13267
GI	none	Score	99
Exons	12354..12512, 12359..12493, 13037..13267, 13039..13266		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o6.tm	Method	TBLASTX:Maize
Start	13144	End	13563
GI	none	Score	183
Exons	13144..13503, 13154..13354, 13495..13563, 13499..13561		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o2.tc	Method	TBLASTX:Cress
Start	13153	End	13584
GI	none	Score	250
Exons	13153..13371, 13154..13369, 13155..13370, 13432..13491, 13477..13584, 13499..13582		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o14.tm	Method	TBLASTX:Maize
Start	13595	End	14221
GI	none	Score	172
Exons	13595..13795, 13597..13770, 13933..14058, 13933..13953, 13955..14056, 13957..14058, 13961..14059, 14140..14217, 14141..14221		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o15.tm	Method	TBLASTX:Maize
Start	19851	End	21116
GI	none	Score	40
Exons	19851..19877, 19855..19884, 19955..20089, 19960..20094, 20046..20102, 20214..20246, 20993..21109, 20994..21116		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809

Name	OJ990619_46.0103.C7.o13.tm	Method	TBLASTX:Maize
Start	20453	End	20591
GI	none	Score	151
Exons	20453..20587, 20454..20591, 20454..20579, 20474..20587		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o2.tm	Method	TBLASTX:Maize
Start	27508	End	28519
GI	none	Score	588
Exons	27508..28086, 27509..28117, 28127..28258, 28198..28239, 28363..28413, 28454..28519		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o5.tw	Method	TBLASTX:Wheat
Start	28439	End	28876
GI	none	Score	110
Exons	28439..28636, 28706..28876		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o3.ts	Method	TBLASTX:Soybean
Start	28733	End	29119
GI	none	Score	344
Exons	28733..29119, 28744..28950		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o2.tw	Method	TBLASTX:Wheat
Start	28895	End	29557
GI	none	Score	252
Exons	28895..29134, 28909..29133, 29174..29479, 29197..29457, 29458..29532, 29459..29557		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o12.tm	Method	TBLASTX:Maize
Start	28910	End	29368
GI	none	Score	128
Exons	28910..29134, 29183..29368, 29185..29346		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o7.ts	Method	TBLASTX:Soybean
Start	29174	End	29560
GI	none	Score	190
Exons	29174..29383, 29176..29355, 29387..29560		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-

Start	40660	End	41809
Name	OJ990619_46.0103.C7.o6.tc	Method	TBLASTX:Cress
Start	29174	End	29554
GI	none	Score	127
Exons	29174..29374, 29387..29554		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o2.ts	Method	TBLASTX:Soybean
Start	30071	End	30508
GI	5509260	Score	365
Exons	30071..30508, 30078..30104, 30160..30432, 30475..30507		
GI Descrip.	-		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o5.tc	Method	TBLASTX:Cress
Start	30158	End	30418
GI	none	Score	249
Exons	30158..30418, 30160..30396		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o1.tw	Method	TBLASTX:Wheat
Start	30199	End	30979
GI	none	Score	364
Exons	30199..30546, 30200..30544, 30200..30553, 30529..30975, 30530..30979		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o11.tm	Method	TBLASTX:Maize
Start	30200	End	30643
GI	none	Score	275
Exons	30200..30508, 30217..30507, 30542..30643		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o10.tm	Method	TBLASTX:Maize
Start	30644	End	31075
GI	none	Score	81
Exons	30644..30805, 30779..31075, 30919..31074		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o8.ts	Method	TBLASTX:Soybean
Start	30965	End	31531
GI	none	Score	131
Exons	30965..31147, 31160..31351, 31340..31531		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
----------	-------	---------	---------------------

Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o16.tm	Method	TBLASTX:Maize
Start	31088	End	31546
GI	none	Score	55
Exons	31088..31147, 31130..31306, 31355..31546		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o4.tw	Method	TBLASTX:Wheat
Start	31135	End	31534
GI	none	Score	278
Exons	31135..31368, 31139..31534		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o1.tc	Method	TBLASTX:Cress
Start	34472	End	38491
GI	none	Score	173
Exons	34472..34681, 34518..34667, 34750..34857, 34757..34855,		

34936..35043, 34940..35047, 35196..35282, 35197..35283,  
 35564..35692, 35693..35773, 35724..35771, 35836..35946,  
 35843..35935, 35941..36006, 36332..36442, 36338..36475,  
 36348..36491, 36573..36671, 36660..36716, 36853..36999,  
 36855..37004, 37085..37159, 37234..37437, 37531..37728,  
 37595..37723, 38354..38491

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o1.ts	Method	TBLASTX:Soybean
Start	34475	End	34971
GI	none	Score	175
Exons	34475..34681, 34506..34667, 34750..34854, 34757..34855, 34939..34971, 34940..34969		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o9.tm	Method	TBLASTX:Maize
Start	34608	End	35043
GI	none	Score	68
Exons	34608..34667, 34610..34681, 34744..34851, 34750..34854,		

34757..34855, 34760..34858, 34934..34996, 34939..35043,  
 34940..35029

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o4.ts	Method	TBLASTX:Soybean
Start	35558	End	36662
GI	none	Score	104
Exons	35558..35683, 35562..35681, 35720..35773, 35727..35771, 35836..35946, 35843..35929, 35926..36006, 35947..36024, 36332..36451, 36338..36466, 36348..36455, 36355..36459,		



36570..36662

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o7.tm	Method	TBLASTX:Maize
Start	35697	End	36032
GI	none	Score	122
Exons	35697..35771, 35698..35772, 35698..35772, 35836..36006, 35845..36006, 35847..36032		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o3.tm	Method	TBLASTX:Maize
Start	36346	End	38714
GI	none	Score	49
Exons	36346..36396, 36394..36411, 36431..36475, 36432..36467, 36568..36621, 36573..36716, 36658..36717, 36852..36908, 36855..36899, 36900..37007, 36901..37002, 37055..37159, 37097..37159, 37101..37163, 37128..37169, 37180..37437, 37232..37438, 37234..37464, 37263..37481, 37528..37737, 37532..37738, 37537..37743, 37816..37944, 37823..37891, 37827..37946, 38051..38164, 38069..38164, 38345..38491, 38364..38489, 38425..38526, 38428..38496, 38576..38632, 38577..38666, 38577..38714, 38584..38706		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o12.ts	Method	TBLASTX:Soybean
Start	37321	End	37702
GI	none	Score	70
Exons	37321..37437, 37528..37701, 37592..37702		

Seq. No.	37723	Seq. ID	OJ990619_46.0103.C7
Gene No.	77554	Strand	-
Start	40660	End	41809
Name	OJ990619_46.0103.C7.o8.gs	Method	GENSCAN
Start	40660	End	41809
GI	none	Score	.62
Exons	40660..40873, 41371..41561, 41659..41809		

Seq. No.	37724	Seq. ID	OJ990619_46.0103.C8
Gene No.	77555	Strand	-
Start	49	End	475
Name	OJ990619_46.0103.C8.o1.gs	Method	GENSCAN
Start	49	End	475
GI	none	Score	.77
Exons	49..475		

Seq. No.	37725	Seq. ID	OJ990619_46.0103.C11
Gene No.	77556	Strand	+
Start	718	End	811
Name	OJ990619_46.0103.C11.o1.gs	Method	GENSCAN
Start	718	End	811
GI	none	Score	.86

Exons 718..811

Seq. No.	37726	Seq. ID	OJ990429_24.0128.C1
Gene No.	77557	Strand	-
Start	1	End	190
Name	OJ990429_24.0128.C1.o1.np	Method	AAT/NAP
Start	1	End	190
GI	5042429	Score	139
Exons	1..190		
GI Descrip.	(AC006193) Putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37726	Seq. ID	OJ990429_24.0128.C1
Gene No.	77557	Strand	-
Start	1	End	190
Name	OJ990429_24.0128.C1.o1.gs	Method	GENSCAN
Start	63	End	137
GI	none	Score	.75
Exons	63..137		

Seq. No.	37727	Seq. ID	OJ990429_24.0128.C2
Gene No.	77558	Strand	+
Start	231	End	518
Name	OJ990429_24.0128.C2.o1.gs	Method	GENSCAN
Start	231	End	518
GI	none	Score	.67
Exons	231..275, 357..518		

Seq. No.	37728	Seq. ID	OJ990429_24.0128.C3
Gene No.	77559	Strand	+
Start	21	End	2064
Name	OJ990429_24.0128.C3.o1.gs	Method	GENSCAN
Start	21	End	2064
GI	none	Score	.73
Exons	21..148, 368..477, 643..690, 1973..2064		

Seq. No.	37728	Seq. ID	OJ990429_24.0128.C3
Gene No.	77560	Strand	+
Start	12022	End	12504
Name	OJ990429_24.0128.C3.o1.gp	Method	AAT/GAP
Start	12022	End	12504
GI	none	Score	906
Exons	12022..12504		

Seq. No.	37728	Seq. ID	OJ990429_24.0128.C3
Gene No.	77561	Strand	-
Start	7328	End	8562
Name	OJ990429_24.0128.C3.o1.np	Method	AAT/NAP
Start	7328	End	8562
GI	6815099	Score	88
Exons	7328..7533, 8406..8434, 8498..8562		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37729	Seq. ID	OJ990429_24.0128.C5
Gene No.	77562	Strand	+
Start	1	End	353
Name	OJ990429_24.0128.C5.o1.np	Method	AAT/NAP
Start	1	End	353

GI 6573712 Score 173  
 Exons 1..353  
 GI Descrip. (AC009978) T23E18.25 [Arabidopsis thaliana]

Seq. No.	37729	Seq. ID	OJ990429_24.0128.C5
Gene No.	77562	Strand	+
Start	1	End	353
Name	OJ990429_24.0128.C5.o1.gs	Method	GENSCAN
Start	79	End	265
GI	none	Score	.46
Exons	79..265		

Seq. No.	37730	Seq. ID	OJ990429_24.0128.C6
Gene No.	77563	Strand	+
Start	315	End	961
Name	OJ990429_24.0128.C6.o1.gs	Method	GENSCAN
Start	315	End	961
GI	none	Score	.66
Exons	315..374, 574..711, 797..961		

Seq. No.	37731	Seq. ID	OJ990429_24.0128.C7
Gene No.	77564	Strand	-
Start	537	End	682
Name	OJ990429_24.0128.C7.o1.gs	Method	GENSCAN
Start	537	End	682
GI	none	Score	.42
Exons	537..682		

Seq. No.	37732	Seq. ID	OJ990429_24.0128.C10
Gene No.	77565	Strand	-
Start	1	End	823
Name	OJ990429_24.0128.C10.o1.np	Method	AAT/NAP
Start	1	End	823
GI	6671951	Score	654
Exons	1..823		
GI Descrip.	(AC016795) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37732	Seq. ID	OJ990429_24.0128.C10
Gene No.	77565	Strand	-
Start	1	End	823
Name	OJ990429_24.0128.C10.o2.tm	Method	TBLASTX:Maize
Start	2	End	308
GI	none	Score	60
Exons	2..55, 9..56, 65..307, 66..308, 98..181		

Seq. No.	37732	Seq. ID	OJ990429_24.0128.C10
Gene No.	77565	Strand	-
Start	1	End	823
Name	OJ990429_24.0128.C10.o1.gs	Method	GENSCAN
Start	154	End	811
GI	none	Score	.84
Exons	154..811		

Seq. No.	37732	Seq. ID	OJ990429_24.0128.C10
Gene No.	77565	Strand	-
Start	1	End	823
Name	OJ990429_24.0128.C10.o1.tw	Method	TBLASTX:Wheat

Start	230	End	691
GI	none	Score	50
Exons	230..526, 575..691, 618..683		
Seq. No.	37732	Seq. ID	OJ990429_24.0128.C10
Gene No.	77565	Strand	-
Start	1	End	823
Name	OJ990429_24.0128.C10.ol.tm	Method	TBLASTX:Maize
Start	323	End	782
GI	none	Score	85
Exons	323..526, 354..527, 605..781, 618..782		

Seq. No.	37733	Seq. ID	OJ990429_24.0128.C11
Gene No.	77566	Strand	+
Start	17	End	429
Name	OJ990429_24.0128.C11.ol.gs	Method	GENSCAN
Start	17	End	375
GI	none	Score	.86
Exons	17..81, 87..255, 286..375		

Seq. No.	37733	Seq. ID	OJ990429_24.0128.C11
Gene No.	77566	Strand	+
Start	17	End	429
Name	OJ990429_24.0128.C11.ol.np	Method	AAT/NAP
Start	17	End	429
GI	6017114	Score	274
Exons	17..162, 286..429		
GI Descrip.	(AC009895) unknown protein [Arabidopsis thaliana]		

Seq. No.	37733	Seq. ID	OJ990429_24.0128.C11
Gene No.	77567	Strand	-
Start	1	End	372
Name	OJ990429_24.0128.C11.ol.gp	Method	AAT/GAP
Start	1	End	343
GI	26327_1.R1084	Score	274
Exons	1..161, 285..343		
GI Descrip.	'6017114/gb AAF01597.1 AC009895_18 2.0e-38 (AC009895) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37733	Seq. ID	OJ990429_24.0128.C11
Gene No.	77567	Strand	-
Start	1	End	372
Name	OJ990429_24.0128.C11.ol.tm	Method	TBLASTX:Maize
Start	13	End	372
GI	none	Score	76
Exons	13..63, 16..63, 17..64, 18..65, 51..161, 52..162, 280..372, 286..345, 288..350		

Seq. No.	37733	Seq. ID	OJ990429_24.0128.C11
Gene No.	77567	Strand	-
Start	1	End	372
Name	OJ990429_24.0128.C11.ol.ts	Method	TBLASTX:Soybean
Start	14	End	342
GI	none	Score	.72
Exons	14..61, 16..63, 17..64, 51..161, 52..162, 280..342, 285..341		

Seq. No.	37734	Seq. ID	OJ990429_24.0128.C12
----------	-------	---------	----------------------

Gene No. 77568  
Start 13  
Name OJ990429\_24.0128.C12.o1.gs  
Start 13  
GI none  
Exons 13..20, 54..102

Strand +  
End 102  
Method GENSCAN  
End 102  
Score .43

Seq. No. 37735  
Gene No. 77569  
Start 125  
Name OJ990429\_24.0128.C13.o1.tm  
Start 125  
GI none  
Exons 125..283, 155..292, 236..520,

Seq. ID OJ990429\_24.0128.C13  
Strand +  
End 545  
Method TBLASTX:Maize  
End 545  
Score 56  
291..545, 301..525, 384..545

Seq. No. 37736  
Gene No. 77570  
Start 38  
Name OJ990429\_24.0128.C14.o1.gs  
Start 38  
GI none  
Exons 38..141

Seq. ID OJ990429\_24.0128.C14  
Strand +  
End 141  
Method GENSCAN  
End 141  
Score .72

Seq. No. 37737  
Gene No. 77571  
Start 203  
Name OJ990429\_24.0128.C15.o1.gp  
Start 203  
GI 2\_2.R1084  
Exons 203..355

Seq. ID OJ990429\_24.0128.C15  
Strand -  
End 355  
Method AAT/GAP  
End 355  
Score 306

GI Descrip. '2129675/pir||S60222 2.0e-26 probable chlorophyll synthetase G4 - Arabidopsis thaliana >gi\_972938 (U19382) putative chlorophyll synthetase [Arabidopsis thaliana] >gi\_3068709 (AF049236) putative chlorophyll synthetase [Arabidopsis thaliana]'

Seq. No. 37738  
Gene No. 77572  
Start 1  
Name OJ990429\_24.0128.C16.o1.np  
Start 1  
GI 3763933  
Exons 1..207, 262..333

Seq. ID OJ990429\_24.0128.C16  
Strand +  
End 333  
Method AAT/NAP  
End 333  
Score 52

GI Descrip. (AC004450) unknown protein [Arabidopsis thaliana]

Seq. No. 37739  
Gene No. 77573  
Start 133  
Name OJ990429\_24.0128.C18.o1.gp  
Start 133  
GI 2797237  
Exons 133..319

Seq. ID OJ990429\_24.0128.C18  
Strand +  
End 319  
Method AAT/GAP  
End 319  
Score 233

Seq. No. 37739  
Gene No. 77573  
Start 133  
Name OJ990429\_24.0128.C18.o1.gs  
Start 135

Seq. ID OJ990429\_24.0128.C18  
Strand +  
End 319  
Method GENSCAN  
End 281

GI	none	Score	.89
Exons	135..281		
Seq. No.	37740	Seq. ID	OJ990429_24.0128.C19
Gene No.	77574	Strand	+
Start	247	End	682
Name	OJ990429_24.0128.C19.ol.gs	Method	GENSCAN
Start	247	End	682
GI	none	Score	.92
Exons	247..368, 379..682		

Seq. No.	37741	Seq. ID	OJ990429_24.0128.C20
Gene No.	77575	Strand	-
Start	1412	End	1745
Name	OJ990429_24.0128.C20.ol.gs	Method	GENSCAN
Start	1412	End	1745
GI	none	Score	.85
Exons	1412..1745		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77576	Strand	-
Start	258	End	340
Name	OJ990429_24.0128.C22.ol.gs	Method	GENSCAN
Start	258	End	340
GI	none	Score	.87
Exons	258..340		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77577	Strand	-
Start	448	End	830
Name	OJ990429_24.0128.C22.ol.gp	Method	AAT/GAP
Start	448	End	830
GI	26930_1.R1084	Score	678
Exons	448..830		
GI Descrip.	'1403522/emb CAA40474  7.0e-82 (X57187) chitinase [Phaseolus vulgaris]'		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77577	Strand	-
Start	448	End	830
Name	OJ990429_24.0128.C22.ol.tm	Method	TBLASTX:Maize
Start	530	End	830
GI	none	Score	290
Exons	530..775, 570..779, 782..829, 783..830		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77577	Strand	-
Start	448	End	830
Name	OJ990429_24.0128.C22.ol.tc	Method	TBLASTX:Cress
Start	536	End	829
GI	none	Score	114
Exons	536..721, 567..710, 707..829, 735..827		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77577	Strand	-
Start	448	End	830
Name	OJ990429_24.0128.C22.ol.ts	Method	TBLASTX:Soybean

Start	564	End	830
GI	none	Score	164
Exons	564..740, 566..748, 707..829, 708..830, 740..787		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77577	Strand	-
Start	448	End	830
Name	OJ990429_24.0128.C22.o2.gs	Method	GENSCAN
Start	566	End	763
GI	none	Score	.52
Exons	566..763		

Seq. No.	37742	Seq. ID	OJ990429_24.0128.C22
Gene No.	77577	Strand	-
Start	448	End	830
Name	OJ990429_24.0128.C22.o1.np	Method	AAT/NAP
Start	569	End	830
GI	1076693	Score	306
Exons	569..830		
GI Descrip.	chitinase (EC 3.2.1.14) class I - European elder (fragment) gi 603882 emb CAA87072  (Z46948) pathogenesis-related protein PR-3 type [Sambucus nigra]		

Seq. No.	37743	Seq. ID	OJ990429_24.0128.C23
Gene No.	77578	Strand	+
Start	1	End	2385
Name	OJ990429_24.0128.C23.o1.np	Method	AAT/NAP
Start	1	End	2385
GI	4539386	Score	41
Exons	1..27, 1083..1297, 1555..1655, 2365..2385		
GI Descrip.	(AL035526) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	37743	Seq. ID	OJ990429_24.0128.C23
Gene No.	77579	Strand	-
Start	52	End	1643
Name	OJ990429_24.0128.C23.o1.gs	Method	GENSCAN
Start	52	End	1643
GI	none	Score	.58
Exons	52..223, 1564..1643		

Seq. No.	37744	Seq. ID	OJ990429_24.0128.C24
Gene No.	77580	Strand	+
Start	57	End	950
Name	OJ990429_24.0128.C24.o1.gs	Method	GENSCAN
Start	57	End	931
GI	none	Score	.61
Exons	57..266, 656..931		

Seq. No.	37744	Seq. ID	OJ990429_24.0128.C24
Gene No.	77580	Strand	+
Start	57	End	950
Name	OJ990429_24.0128.C24.o1.np	Method	AAT/NAP
Start	69	End	950
GI	2281107	Score	188
Exons	69..266, 656..950		
GI Descrip.	(AC002333) unknown protein [Arabidopsis thaliana]		

Seq. No.	37744	Seq. ID	OJ990429_24.0128.C24
Gene No.	77581	Strand	-
Start	1862	End	2780
Name	OJ990429_24.0128.C24.o1.tm	Method	TBLASTX:Maize
Start	29	End	945
GI	none	Score	142
Exons	29..112, 30..128, 33..275, 37..129, 189..254, 190..264, 233..304, 629..931, 629..934, 646..936, 648..944, 655..945		

Seq. No.	37744	Seq. ID	OJ990429_24.0128.C24
Gene No.	77581	Strand	-
Start	1862	End	2780
Name	OJ990429_24.0128.C24.o2.gs	Method	GENSCAN
Start	1862	End	2721
GI	none	Score	.87
Exons	1862..1964, 2059..2084, 2432..2550, 2595..2721		

Seq. No.	37744	Seq. ID	OJ990429_24.0128.C24
Gene No.	77581	Strand	-
Start	1862	End	2780
Name	OJ990429_24.0128.C24.o2.np	Method	AAT/NAP
Start	1868	End	2780
GI	6598863	Score	183
Exons	1868..1963, 2411..2544, 2631..2780		
GI Descrip.	(AC010556) unknown protein [Arabidopsis thaliana]		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77582	Strand	+
Start	167	End	576
Name	OJ990429_24.0128.C25.o1.gs	Method	GENSCAN
Start	167	End	576
GI	none	Score	.67
Exons	167..212, 353..576		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77583	Strand	+
Start	930	End	2684
Name	OJ990429_24.0128.C25.o2.gs	Method	GENSCAN
Start	930	End	2684
GI	none	Score	.68
Exons	930..941, 2222..2337, 2441..2684		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77584	Strand	+
Start	3473	End	3923
Name	OJ990429_24.0128.C25.o1.gp	Method	AAT/GAP
Start	3473	End	3923
GI	none	Score	845
Exons	3473..3923		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77585	Strand	+
Start	11617	End	11967
Name	OJ990429_24.0128.C25.o4.gs	Method	GENSCAN
Start	11617	End	11967
GI	none	Score	.92
Exons	11617..11967		



Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77586	Strand	-
Start	218	End	9572
Name	OJ990429_24.0128.C25.o1.np	Method	AAT/NAP
Start	218	End	8824
GI	3080398	Score	92
Exons	218..297, 6788..6877, 7473..7516, 7602..7686, 8672..8824		
GI Descrip.	(AL022603) putative protein [Arabidopsis thaliana]		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77586	Strand	-
Start	218	End	9572
Name	OJ990429_24.0128.C25.o3.gs	Method	GENSCAN
Start	3756	End	9572
GI	none	Score	.45
Exons	3756..3822, 4122..4247, 4277..4376, 4903..4944, 4986..5861, 5968..6067, 6731..6854, 7473..7510, 8672..8752, 9159..9572		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77586	Strand	-
Start	218	End	9572
Name	OJ990429_24.0128.C25.o2.gp	Method	AAT/GAP
Start	5000	End	5838
GI	none	Score	1662
Exons	5000..5838		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o3.tm	Method	TBLASTX:Maize
Start	3592	End	4957
GI	none	Score	39
Exons	3592..3630, 3750..3779, 3754..3780, 3785..3829, 3786..3830, 3835..3864, 3837..3863, 3891..3920, 4002..4151, 4028..4177, 4030..4152, 4094..4183, 4174..4236, 4227..4268, 4304..4507, 4340..4507, 4341..4508, 4342..4515, 4900..4944, 4901..4957		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o1.tm	Method	TBLASTX:Maize
Start	4965	End	5571
GI	none	Score	326
Exons	4965..5285, 4967..5287, 4967..5278, 5011..5286, 5203..5412, 5276..5329, 5299..5517, 5339..5521, 5517..5567, 5521..5571		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o1.ts	Method	TBLASTX:Soybean
Start	4982	End	5529
GI	none	Score	78
Exons	4982..5056, 5014..5055, 5057..5206, 5057..5116, 5059..5223, 5221..5271, 5242..5457, 5270..5470, 5452..5529, 5456..5527		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
----------	-------	---------	----------------------

Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o1.tc	Method	TBLASTX:Cress
Start	5350	End	6781
GI	none	Score	56
Exons	5350..5430, 5369..5425, 5452..5562, 5456..5587, 5600..5638, 5629..5724, 5730..5852, 5738..5845, 5746..5862, 5747..5869, 5969..6073, 5970..6068, 6731..6781		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o1.tw	Method	TBLASTX:Wheat
Start	5567	End	6073
GI	none	Score	66
Exons	5567..5638, 5659..5706, 5716..5862, 5726..5869, 5969..6073, 5970..6068, 5987..6070		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o2.tm	Method	TBLASTX:Maize
Start	5572	End	6061
GI	none	Score	297
Exons	5572..5871, 5573..5890, 5955..6059, 5960..6058, 5965..6060, 5984..6061, 5986..6060		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o2.ts	Method	TBLASTX:Soybean
Start	5734	End	8767
GI	none	Score	78
Exons	5734..5862, 5740..5862, 5741..5866, 5968..6048, 5969..6073, 5970..6068, 6731..6877, 6735..6878, 6737..6880, 6745..6879, 7470..7535, 7471..7521, 7588..7689, 7589..7687, 7592..7693, 8669..8767, 8670..8762		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o5.tm	Method	TBLASTX:Maize
Start	6731	End	7689
GI	none	Score	191
Exons	6731..6877, 6732..6878, 7470..7535, 7470..7535, 7588..7689, 7589..7687, 7591..7689		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o4.tm	Method	TBLASTX:Maize
Start	8603	End	8824
GI	none	Score	230
Exons	8603..8812, 8613..8813, 8615..8824		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-

Start	12506	End	13566
Name	OJ990429_24.0128.C25.o6.tm	Method	TBLASTX:Maize
Start	9395	End	9639
GI	none	Score	49
Exons	9395..9424, 9419..9562, 9423..9581, 9423..9581, 9424..9582, 9586..9639, 9587..9622		

Seq. No.	37745	Seq. ID	OJ990429_24.0128.C25
Gene No.	77587	Strand	-
Start	12506	End	13566
Name	OJ990429_24.0128.C25.o5.gs	Method	GENSCAN
Start	12506	End	13566
GI	none	Score	.7
Exons	12506..12608, 12700..12746, 12898..13195, 13378..13453, 13554..13566		

Seq. No.	37746	Seq. ID	OJ990429_24.0128.C26
Gene No.	77588	Strand	+
Start	536	End	4855
Name	OJ990429_24.0128.C26.o1.np	Method	AAT/NAP
Start	536	End	4838
GI	3451074	Score	722

Exons	536..563, 2725..3126, 3181..3414, 4199..4838		
GI Descrip.	(AL031326) putative protein [Arabidopsis thaliana]		

Seq. No.	37746	Seq. ID	OJ990429_24.0128.C26
Gene No.	77588	Strand	+
Start	536	End	4855
Name	OJ990429_24.0128.C26.o1.gp	Method	AAT/GAP
Start	2061	End	2141
GI	38012_1.R1084	Score	99
Exons	2061..2141		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds.'		

Seq. No.	37746	Seq. ID	OJ990429_24.0128.C26
Gene No.	77588	Strand	+
Start	536	End	4855
Name	OJ990429_24.0128.C26.o1.gs	Method	GENSCAN
Start	2521	End	4855
GI	none	Score	.54
Exons	2521..3414, 4199..4855		

Seq. No.	37746	Seq. ID	OJ990429_24.0128.C26
Gene No.	77589	Strand	+
Start	9118	End	10969
Name	OJ990429_24.0128.C26.o2.gs	Method	GENSCAN
Start	9118	End	10969
GI	none	Score	.62
Exons	9118..9198, 9267..9473, 10212..10303, 10670..10713, 10824..10969		

Seq. No.	37746	Seq. ID	OJ990429_24.0128.C26
Gene No.	77590	Strand	-
Start	11908	End	12081
Name	OJ990429_24.0128.C26.o1.tc	Method	TBLASTX:Cress
Start	2803	End	3363
GI	none	Score	135

Exons 2803..2898, 2811..2897, 2961..3050, 2971..3060, 3115..3279,  
3141..3281, 3268..3363, 3276..3362

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -  
Start 11908 End 12081  
Name OJ990429\_24.0128.C26.o1.tw Method TBLASTX:Wheat  
Start 3022 End 3353  
GI none Score 60  
Exons 3022..3060, 3022..3063, 3115..3162, 3153..3236, 3154..3237,  
3273..3308, 3277..3309, 3309..3350, 3309..3353

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -  
Start 11908 End 12081  
Name OJ990429\_24.0128.C26.o1.ts Method TBLASTX:Soybean  
Start 3115 End 4423  
GI 5666695 Score 290  
Exons 3115..3417, 3141..3407, 4193..4423, 4270..4422  
GI Descrip. -

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -  
Start 11908 End 12081  
Name OJ990429\_24.0128.C26.o2.tm Method TBLASTX:Maize  
Start 4223 End 4603  
GI none Score 100  
Exons 4223..4318, 4325..4603

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -  
Start 11908 End 12081  
Name OJ990429\_24.0128.C26.o2.tc Method TBLASTX:Cress  
Start 4380 End 4844  
GI none Score 223  
Exons 4380..4535, 4382..4675, 4382..4540, 4504..4656, 4694..4747,  
4827..4844

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -  
Start 11908 End 12081  
Name OJ990429\_24.0128.C26.o2.ts Method TBLASTX:Soybean  
Start 4504 End 4919  
GI none Score 162  
Exons 4504..4674, 4505..4675, 4682..4750, 4830..4919

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -  
Start 11908 End 12081  
Name OJ990429\_24.0128.C26.o1.tm Method TBLASTX:Maize  
Start 4616 End 4972  
GI none Score 109  
Exons 4616..4732, 4617..4733, 4617..4736, 4636..4737, 4637..4756,  
4776..4892, 4818..4913, 4883..4972, 4891..4968

Seq. No. 37746 Seq. ID OJ990429\_24.0128.C26  
Gene No. 77590 Strand -

Start	11908	End	12081
Name	OJ990429_24.0128.C26.o3.gs	Method	GENSCAN
Start	11908	End	12081
GI	none	Score	.83
Exons	11908..12081		

Seq. No.	37747	Seq. ID	OJ990429_24.0128.C27
Gene No.	77591	Strand	+
Start	2744	End	4810
Name	OJ990429_24.0128.C27.o1.gs	Method	GENSCAN
Start	2744	End	4810
GI	none	Score	.69
Exons	2744..2995, 3420..3577, 4579..4810		

Seq. No.	37747	Seq. ID	OJ990429_24.0128.C27
Gene No.	77592	Strand	+
Start	5925	End	7103
Name	OJ990429_24.0128.C27.o2.gs	Method	GENSCAN
Start	5925	End	7103
GI	none	Score	.94
Exons	5925..5978, 6960..7103		

Seq. No.	37747	Seq. ID	OJ990429_24.0128.C27
Gene No.	77593	Strand	-
Start	8165	End	10549
Name	OJ990429_24.0128.C27.o3.gs	Method	GENSCAN
Start	8165	End	10549
GI	none	Score	.58
Exons	8165..8276, 9625..9890, 10207..10295, 10471..10549		

Seq. No.	37748	Seq. ID	OJ990429_24.0128.C28
Gene No.	77594	Strand	+
Start	1356	End	2929
Name	OJ990429_24.0128.C28.o1.np	Method	AAT/NAP
Start	1356	End	2929
GI	283004	Score	472
Exons	1356..1744, 2465..2929		
GI Descrip.	DNA-binding protein Gt-2 - rice gi 20249 emb CAA48328  (X68261) gt-2 [Oryza sativa]		

Seq. No.	37748	Seq. ID	OJ990429_24.0128.C28
Gene No.	77594	Strand	+
Start	1356	End	2929
Name	OJ990429_24.0128.C28.o1.gp	Method	AAT/GAP
Start	1407	End	2769
GI	433381.R1084	Score	1215
Exons	1407..1744, 2465..2769		
GI Descrip.	'283004/pir  S28030 3.0e-42 DNA-binding protein Gt-2 - rice >gi_20249_emb_CAA48328_ (X68261) gt-2 [Oryza sativa]'		

Seq. No.	37748	Seq. ID	OJ990429_24.0128.C28
Gene No.	77594	Strand	+
Start	1356	End	2929
Name	OJ990429_24.0128.C28.o1.gs	Method	GENSCAN
Start	1422	End	2877
GI	none	Score	.6
Exons	1422..1744, 2465..2877		

Seq. No.	37748	Seq. ID	OJ990429_24.0128.C28
Gene No.	77594	Strand	+
Start	1356	End	2929
Name	OJ990429_24.0128.C28.o1.tc	Method	TBLASTX:Cress
Start	1634	End	2696
GI	none	Score	166
Exons	1634..1747, 1635..1745, 1635..1742, 2435..2611, 2439..2672, 2480..2557, 2481..2570, 2649..2696		

Seq. No.	37748	Seq. ID	OJ990429_24.0128.C28
Gene No.	77594	Strand	+
Start	1356	End	2929
Name	OJ990429_24.0128.C28.o1.ts	Method	TBLASTX:Soybean
Start	1634	End	2615
GI	none	Score	180
Exons	1634..1747, 1635..1745, 2447..2611, 2448..2615		

Seq. No.	37748	Seq. ID	OJ990429_24.0128.C28
Gene No.	77594	Strand	+
Start	1356	End	2929
Name	OJ990429_24.0128.C28.o1.tm	Method	TBLASTX:Maize
Start	2448	End	2702
GI	none	Score	285
Exons	2448..2630, 2462..2629, 2630..2701, 2631..2702		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77595	Strand	+
Start	1	End	1623
Name	OJ990429_24.0128.C29.o1.np	Method	AAT/NAP
Start	1	End	1620
GI	283004	Score	865
Exons	1..896, 966..1103, 1237..1283, 1350..1503, 1565..1620		
GI Descrip.	DNA-binding protein Gt-2 - rice gi 20249 emb CAA48328  (X68261) gt-2 [Oryza sativa]		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77595	Strand	+
Start	1	End	1623
Name	OJ990429_24.0128.C29.o1.gs	Method	GENSCAN
Start	27	End	1623
GI	none	Score	.65
Exons	27..1103, 1237..1623		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77596	Strand	-
Start	1584	End	2228
Name	OJ990429_24.0128.C29.o2.ts	Method	TBLASTX:Soybean
Start	2	End	229
GI	none	Score	256
Exons	2..76, 3..221, 188..229		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77596	Strand	-
Start	1584	End	2228
Name	OJ990429_24.0128.C29.o1.tc	Method	TBLASTX:Cress
Start	3	End	818

GI	none	Score	221
Exons	3..227, 546..764, 546..818, 548..652, 755..793		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77596	Strand	-
Start	1584	End	2228
Name	OJ990429_24.0128.C29.o2.tm	Method	TBLASTX:Maize
Start	111	End	232
GI	none	Score	182
Exons	111..230, 141..230, 182..232		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77596	Strand	-
Start	1584	End	2228
Name	OJ990429_24.0128.C29.o1.ts	Method	TBLASTX:Soybean
Start	545	End	818
GI	none	Score	427
Exons	545..652, 546..818, 758..793		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77596	Strand	-
Start	1584	End	2228
Name	OJ990429_24.0128.C29.o1.tm	Method	TBLASTX:Maize
Start	546	End	818
GI	none	Score	444
Exons	546..818, 548..649, 574..666, 755..793		

Seq. No.	37749	Seq. ID	OJ990429_24.0128.C29
Gene No.	77596	Strand	-
Start	1584	End	2228
Name	OJ990429_24.0128.C29.o1.gp	Method	AAT/GAP
Start	1584	End	2228
GI	none	Score	1249
Exons	1584..2228		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77597	Strand	+
Start	2708	End	4504
Name	OJ990429_24.0128.C30.o1.gs	Method	GENSCAN
Start	2708	End	4504
GI	none	Score	.62
Exons	2708..2798, 2933..3027, 3056..3272, 3442..3535, 4474..4504		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77598	Strand	+
Start	5206	End	7586
Name	OJ990429_24.0128.C30.o2.gs	Method	GENSCAN
Start	5206	End	7586
GI	none	Score	.82
Exons	5206..5269, 7258..7586		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77599	Strand	+
Start	8417	End	9699
Name	OJ990429_24.0128.C30.o3.gs	Method	GENSCAN
Start	8417	End	9699
GI	none	Score	.99

Exons 8417..8657, 8824..8966, 9037..9699

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77599	Strand	+
Start	8417	End	9699
Name	OJ990429_24.0128.C30.o2.gp	Method	AAT/GAP
Start	8789	End	9465
GI	10616_2.R1084	Score	1287
Exons	8789..9465		
GI Descrip.	'5042435/gb AAD38274.1 AC006193_30 8.0e-68 (AC006193) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77599	Strand	+
Start	8417	End	9699
Name	OJ990429_24.0128.C30.o1.np	Method	AAT/NAP
Start	8863	End	9654
GI	5042435	Score	855
Exons	8863..9654		
GI Descrip.	(AC006193) Unknown protein [Arabidopsis thaliana]		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77600	Strand	+
Start	9773	End	10051
Name	OJ990429_24.0128.C30.o3.gp	Method	AAT/GAP
Start	9773	End	10051
GI	3761197	Score	529
Exons	9773..10051		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77601	Strand	+
Start	19229	End	19398
Name	OJ990429_24.0128.C30.o7.gp	Method	AAT/GAP
Start	19229	End	19398
GI	uC-osflcyp039h04b1	Score	297
Exons	19229..19398		
GI Descrip.	'1617274/emb CAA96522  1.0e-09 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77602	Strand	+
Start	24831	End	25132
Name	OJ990429_24.0128.C30.o8.gp	Method	AAT/GAP
Start	24831	End	25132
GI	701523	Score	490
Exons	24831..25132		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77603	Strand	-
Start	5384	End	5854
Name	OJ990429_24.0128.C30.o1.gp	Method	AAT/GAP
Start	5384	End	5854
GI	8547_1.R1084	Score	865
Exons	5384..5854		
GI Descrip.	'2288999 5.0e-16 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]'		



Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77604	Strand	-
Start	10887	End	11561
Name	OJ990429_24.0128.C30.o4.gs	Method	GENSCAN
Start	10887	End	11561
GI	none	Score	.4
Exons	10887..11220, 11356..11561		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77605	Strand	-
Start	11862	End	17352
Name	OJ990429_24.0128.C30.o4.gp	Method	AAT/GAP
Start	11862	End	12317
GI	3768959	Score	575
Exons	11862..12149, 12238..12317		
GI Descrip.	2288999 5.0e-16 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77605	Strand	-
Start	11862	End	17352
Name	OJ990429_24.0128.C30.o5.gs	Method	GENSCAN
Start	12066	End	17187
GI	none	Score	.84
Exons	12066..12149, 12238..12304, 12412..12540, 12836..12915, 13035..13101, 13212..13261, 13414..13538, 13743..13845, 14167..14259, 14379..14447, 14771..14887, 15312..15386, 15492..15555, 15764..15876, 15952..16056, 16728..16804, 16941..17187		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77605	Strand	-
Start	11862	End	17352
Name	OJ990429_24.0128.C30.o2.np	Method	AAT/NAP
Start	12069	End	17352
GI	2288999	Score	1760
Exons	12069..12149, 12238..12304, 12412..12540, 12836..12915, 13035..13101, 13212..13261, 13414..13538, 13743..13845, 14167..14259, 14379..14447, 14771..14887, 15312..15386, 15492..15538, 15768..15876, 15952..16033, 16140..16246, 16728..16804, 16941..17352		
GI Descrip.	(AC002335) putative electron transfer flavoprotein ubiquinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77605	Strand	-
Start	11862	End	17352
Name	OJ990429_24.0128.C30.o5.gp	Method	AAT/GAP
Start	15312	End	15985
GI	3768958	Score	413
Exons	15312..15386, 15492..15538, 15768..15876, 15952..15985		
GI Descrip.	2288999 5.0e-28 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77605	Strand	-
Start	11862	End	17352

Name	OJ990429_24.0128.C30.o6.gp	Method	AAT/GAP
Start	16133	End	17192
GI	uC-osroM202028h10b1	Score	769
Exons	16133..16246, 16728..16804, 16941..17192		
GI Descrip.	'2288999 3.0e-28 (AC002335) electron transfer flavoprotein ubiquinone oxidoreductase isolog [Arabidopsis thaliana]'		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o3.tm	Method	TBLASTX:Maize
Start	8907	End	9135
GI	none	Score	330
Exons	8907..9134, 8908..9135		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o1.ts	Method	TBLASTX:Soybean
Start	8917	End	9486
GI	none	Score	378
Exons	8917..9198, 8922..9035, 9084..9188, 9226..9366, 9237..9365, 9363..9485, 9376..9486		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o2.tm	Method	TBLASTX:Maize
Start	12058	End	13262
GI	none	Score	126
Exons	12058..12150, 12065..12157, 12066..12152, 12066..12158, 12067..12165, 12233..12289, 12237..12296, 12238..12303, 12238..12303, 12408..12548, 12409..12549, 12410..12565, 12411..12569, 12413..12562, 12793..12930, 12828..12914, 12829..12918, 13029..13103, 13035..13067, 13036..13095, 13211..13261, 13212..13262		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o1.tc	Method	TBLASTX:Cress
Start	12060	End	12548
GI	none	Score	70
Exons	12060..12158, 12066..12158, 12085..12165, 12238..12303, 12414..12548		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o3.ts	Method	TBLASTX:Soybean
Start	12063	End	12288
GI	none	Score	83
Exons	12063..12158, 12066..12152, 12067..12165, 12238..12288		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029

Name	OJ990429_24.0128.C30.o1.tm	Method	TBLASTX:Maize
Start	13420	End	17097
GI	none	Score	124
Exons	13420..13542, 13421..13540, 13723..13815, 13724..13816, 13735..13818, 13739..13828, 13819..13839, 13819..13851, 14167..14283, 14171..14266, 14172..14267, 14379..14438, 14379..14450, 14380..14448, 14741..14887, 14746..14889, 14772..14888, 14773..14889, 15308..15388, 15309..15389, 15310..15387, 15312..15389, 15475..15549, 15483..15548, 15484..15549, 15492..15551, 15766..15879, 15767..15877, 15768..15878, 15769..15879, 15948..16034, 15948..16034, 15949..16035, 15949..16035, 16140..16244, 16142..16246, 16727..16804, 16728..16805, 16728..16805, 16729..16860, 16936..17097, 16937..17017, 16939..17067		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o2.ts	Method	TBLASTX:Soybean
Start	13781	End	15516
GI	none	Score	77
Exons	13781..13831, 13783..13830, 14167..14283, 14168..14266, 14169..14267, 14379..14450, 14380..14442, 14741..14887, 14770..14889, 14772..14888, 15309..15389, 15310..15387, 15312..15389, 15481..15516, 15492..15515		

Seq. No.	37750	Seq. ID	OJ990429_24.0128.C30
Gene No.	77606	Strand	-
Start	19256	End	25029
Name	OJ990429_24.0128.C30.o6.gs	Method	GENSCAN
Start	19256	End	25029
GI	none	Score	.42
Exons	19256..19308, 19440..19598, 20594..20730, 22287..22367, 23101..23253, 23480..23690, 24745..25029		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77607	Strand	+
Start	1	End	818
Name	OJ990429_24.0128.C31.o1.np	Method	AAT/NAP
Start	1	End	801
GI	4538968	Score	395
Exons	1..801		
GI Descrip.	(AL049488) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77607	Strand	+
Start	1	End	818
Name	OJ990429_24.0128.C31.o1.gs	Method	GENSCAN
Start	124	End	818
GI	none	Score	.45
Exons	124..818		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77608	Strand	-
Start	466	End	980
Name	OJ990429_24.0128.C31.o2.gp	Method	AAT/GAP
Start	466	End	980

GI	none	Score	1009
Exons	466..980		
Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77609	Strand	-
Start	1569	End	2990
Name	OJ990429_24.0128.C31.o1.tc	Method	TBLASTX:Cress
Start	99	End	553
GI	none	Score	303
Exons	99..533, 158..376, 416..553		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77609	Strand	-
Start	1569	End	2990
Name	OJ990429_24.0128.C31.o1.ts	Method	TBLASTX:Soybean
Start	117	End	527
GI	none	Score	194
Exons	117..374, 384..527		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77609	Strand	-
Start	1569	End	2990
Name	OJ990429_24.0128.C31.o1.tw	Method	TBLASTX:Wheat
Start	123	End	368
GI	none	Score	290
Exons	123..368, 158..367		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77609	Strand	-
Start	1569	End	2990
Name	OJ990429_24.0128.C31.o1.tm	Method	TBLASTX:Maize
Start	323	End	590
GI	none	Score	192
Exons	323..553, 329..496, 333..590		

Seq. No.	37751	Seq. ID	OJ990429_24.0128.C31
Gene No.	77609	Strand	-
Start	1569	End	2990
Name	OJ990429_24.0128.C31.o2.gs	Method	GENSCAN
Start	1569	End	2990
GI	none	Score	.65
Exons	1569..1817, 2807..2859, 2921..2990		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.gp	Method	AAT/GAP
Start	330	End	2400
GI	794_1.R1084	Score	1493
Exons	330..655, 986..1156, 1685..1773, 2134..2400		
GI Descrip.	'2570497 1.0e-69 (AF022731) H protein subunit of glycine decarboxylase [Oryza sativa]'		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.ts	Method	TBLASTX:Soybean

Start	496	End	2320
GI	none	Score	105
Exons	496..534, 536..655, 573..653, 983..1165, 984..1175, 1685..1777, 1689..1775, 2120..2320		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.tw	Method	TBLASTX:Wheat
Start	506	End	682
GI	none	Score	153
Exons	506..655, 552..656, 555..656, 614..682		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.tm	Method	TBLASTX:Maize
Start	529	End	2243
GI	none	Score	151
Exons	529..588, 530..655, 552..656, 977..1165, 987..1157, 1070..1159, 1668..1766, 1669..1773, 1684..1773, 1685..1774, 1686..1775, 2111..2242, 2134..2241, 2135..2242, 2136..2243		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.gs	Method	GENSCAN
Start	530	End	5347
GI	none	Score	.61
Exons	530..655, 986..1156, 1685..1773, 2134..2355, 4963..5119, 5273..5347		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.np	Method	AAT/NAP
Start	535	End	2242
GI	2570497	Score	598
Exons	535..655, 986..1156, 1685..1773, 2134..2242		
GI Descrip.	(AF022731) H protein subunit of glycine decarboxylase [Oryza sativa]		

Seq. No.	37752	Seq. ID	OJ990429_24.0128.C32
Gene No.	77610	Strand	-
Start	530	End	5347
Name	OJ990429_24.0128.C32.o1.tc	Method	TBLASTX:Cress
Start	536	End	1775
GI	none	Score	71
Exons	536..655, 552..650, 983..1165, 984..1160, 1685..1774, 1695..1775		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77611	Strand	+
Start	29	End	1416
Name	OJ990429_24.0128.C33.o1.gs	Method	GENSCAN
Start	29	End	1416
GI	none	Score	.47
Exons	29..76, 412..454, 941..1082, 1314..1416		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77612	Strand	-
Start	1804	End	2130
Name	OJ990429_24.0128.C33.o2.gs	Method	GENSCAN
Start	1804	End	2130
GI	none	Score	.67
Exons	1804..1828, 2006..2130		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77613	Strand	-
Start	2978	End	7117
Name	OJ990429_24.0128.C33.o3.gs	Method	GENSCAN
Start	2978	End	6997
GI	none	Score	.56
Exons	2978..6997		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77613	Strand	-
Start	2978	End	7117
Name	OJ990429_24.0128.C33.o1.np	Method	AAT/NAP
Start	2981	End	7117
GI	2583130	Score	1801
Exons	2981..7117		
GI Descrip.	(AC002387) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77614	Strand	-
Start	8248	End	9798
Name	OJ990429_24.0128.C33.o4.gs	Method	GENSCAN
Start	8248	End	9798
GI	none	Score	.99
Exons	8248..9798		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77614	Strand	-
Start	8248	End	9798
Name	OJ990429_24.0128.C33.o2.np	Method	AAT/NAP
Start	8251	End	9798
GI	5042429	Score	1230
Exons	8251..9798		
GI Descrip.	(AC006193) Putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o3.tm	Method	TBLASTX:Maize
Start	4395	End	4768
GI	none	Score	71
Exons	4395..4607, 4397..4759, 4658..4768		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o3.tw	Method	TBLASTX:Wheat
Start	4440	End	4829

GI	none	Score	148
Exons	4440..4829, 4442..4828		
Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o2.tm	Method	TBLASTX:Maize
Start	4916	End	5548
GI	none	Score	63
Exons	4916..5047, 5081..5365, 5136..5348, 5354..5548		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o2.tw	Method	TBLASTX:Wheat
Start	5061	End	5440
GI	none	Score	155
Exons	5061..5369, 5078..5395, 5390..5440, 5400..5438		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o4.tw	Method	TBLASTX:Wheat
Start	5441	End	5704
GI	none	Score	160
Exons	5441..5704, 5451..5648		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o5.tw	Method	TBLASTX:Wheat
Start	6626	End	7006
GI	none	Score	77
Exons	6626..7006, 6663..6722		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o1.tc	Method	TBLASTX:Cress
Start	8206	End	9624
GI	none	Score	194
Exons	8206..8499, 8258..8461, 8506..8730, 8510..8713, 8752..8913, 8765..8899, 8893..8958, 9022..9150, 9151..9294, 9292..9450, 9502..9624		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o1.tm	Method	TBLASTX:Maize
Start	8260	End	9423
GI	none	Score	289
Exons	8260..8340, 8293..8733, 8297..8713, 8758..8922, 8765..8902, 8917..8961, 9046..9144, 9304..9423		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299

Name	OJ990429_24.0128.C33.o1.ts	Method	TBLASTX:Soybean
Start	8260	End	9597
GI	none	Score	76
Exons	8260..8334, 8353..8493, 8354..8455, 8494..8745, 8510..8713, 8749..8922, 8768..8899, 8926..8958, 9160..9276, 9241..9522, 9427..9597		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o1.tw	Method	TBLASTX:Wheat
Start	8263	End	8620
GI	none	Score	408
Exons	8263..8619, 8264..8620		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o4.tm	Method	TBLASTX:Maize
Start	9157	End	9630
GI	none	Score	90
Exons	9157..9303, 9221..9286, 9427..9630, 9427..9630		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o6.tw	Method	TBLASTX:Wheat
Start	9298	End	9639
GI	none	Score	128
Exons	9298..9639, 9298..9438, 9481..9561, 9568..9624		

Seq. No.	37753	Seq. ID	OJ990429_24.0128.C33
Gene No.	77615	Strand	-
Start	10516	End	13299
Name	OJ990429_24.0128.C33.o5.gs	Method	GENSCAN
Start	10516	End	13299
GI	none	Score	.88
Exons	10516..10571, 11494..11583, 13123..13299		

Seq. No.	37754	Seq. ID	OJ990429_24.0128.C35
Gene No.	77616	Strand	+
Start	1255	End	2072
Name	OJ990429_24.0128.C35.o1.gp	Method	AAT/GAP
Start	1255	End	2072
GI	83529.1:R1084	Score	803

Exons	1255..1372, 1615..2072		
GI Descrip.	'4521194/dbj AB013613.1 AB013613 6.0e-79 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	37754	Seq. ID	OJ990429_24.0128.C35
Gene No.	77617	Strand	-
Start	755	End	6234
Name	OJ990429_24.0128.C35.o1.gs	Method	GENSCAN
Start	755	End	6234
GI	none	Score	.68
Exons	755..929, 3481..3556, 3953..4277, 5729..5874, 6213..6234		



Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77618	Strand	+
Start	69	End	749
Name	OJ990429_24.0128.C36.o1.gs	Method	GENSCAN
Start	69	End	749
GI	none	Score	.68
Exons	69..149, 618..749		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77619	Strand	+
Start	1823	End	3382
Name	OJ990429_24.0128.C36.o1.np	Method	AAT/NAP
Start	1823	End	3376
GI	5042425	Score	1181
Exons	1823..3376		
GI Descrip.	(AC006193) Putative Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77619	Strand	+
Start	1823	End	3382
Name	OJ990429_24.0128.C36.o2.gs	Method	GENSCAN
Start	1823	End	3382
GI	none	Score	1
Exons	1823..3382		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o1.tw	Method	TBLASTX:Wheat
Start	987	End	3382
GI	none	Score	55
Exons	987..1034, 3007..3363, 3008..3364, 3008..3382, 3288..3365		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o2.tm	Method	TBLASTX:Maize
Start	1928	End	2323
GI	none	Score	39
Exons	1928..2110, 1938..1955, 1945..2136, 1958..2149, 2264..2323		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o1.tc	Method	TBLASTX:Cress
Start	1967	End	3369
GI	none	Score	101
Exons	1967..2116, 2183..2275, 2348..2482, 2371..2427, 2483..2647, 2564..2731, 2662..2700, 2711..2872, 2744..2827, 2755..2871, 2863..2952, 2897..3121, 3010..3117, 3044..3118, 3128..3367, 3166..3369		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o2.tw	Method	TBLASTX:Wheat
Start	1970	End	2305

GI	none	Score	67
Exons	1970..2047, 1988..2071, 2063..2278, 2063..2305		
Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o1.ts	Method	TBLASTX:Soybean
Start	2021	End	3343
GI	none	Score	161
Exons	2021..2272, 2357..2473, 2702..2872, 2755..2871, 2879..3133, 2890..2955, 3010..3117, 3134..3274, 3172..3273, 3290..3343		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o1.tm	Method	TBLASTX:Maize
Start	2186	End	3334
GI	none	Score	64
Exons	2186..2260, 2362..2463, 2363..2476, 2489..2587, 2639..2707, 2684..2866, 2714..2827, 2758..2859, 2878..2952, 2894..3334, 3007..3300, 3017..3331		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o2.np	Method	AAT/NAP
Start	2384	End	4181
GI	6016875	Score	356
Exons	2384..2456, 3760..3897, 4006..4181		
GI Descrip.	(AP000570) EST AU078302(C63241) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37755	Seq. ID	OJ990429_24.0128.C36
Gene No.	77620	Strand	-
Start	2384	End	4181
Name	OJ990429_24.0128.C36.o3.gs	Method	GENSCAN
Start	3725	End	4171
GI	none	Score	.6
Exons	3725..3897, 4040..4171		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77621	Strand	+
Start	737	End	1864
Name	OJ990429_24.0128.C37.o1.gs	Method	GENSCAN
Start	737	End	1864
GI	none	Score	.82
Exons	737..778, 1772..1864		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77622	Strand	+
Start	2024	End	2639
Name	OJ990429_24.0128.C37.o1.gp	Method	AAT/GAP
Start	2024	End	2639
GI	47859_1.R1084	Score	1143
Exons	2024..2639		
GI Descrip.	'461812/sp Q05047 CP72_CATRO 8.0e-38 CYTOCHROME P450 72A1 (CYPLXXII) (PROBABLE GERANIOL-10-HYDROXYLASE) (GE10H) >gi_167484		

(L10081) Cytochrome P-450 protein [Catharanthus roseus]  
>gi\_445604\_prf\_\_1909351A cytochrome P450 [Catharanthus roseus]'

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77623	Strand	+
Start	4401	End	8770
Name	OJ990429_24.0128.C37.o3.gs	Method	GENSCAN
Start	4401	End	8578
GI	none	Score	.63
Exons	4401..5225, 5254..5935, 6869..7033, 7118..7355, 7581..7828, 7868..8104, 8133..8578		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77623	Strand	+
Start	4401	End	8770
Name	OJ990429_24.0128.C37.o3.np	Method	AAT/NAP
Start	7508	End	8533
GI	5922636	Score	396
Exons	7508..7625, 7915..8104, 8399..8533		
GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016869 dbj BAA85212.1  (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77623	Strand	+
Start	4401	End	8770
Name	OJ990429_24.0128.C37.o2.gp	Method	AAT/GAP
Start	7793	End	8169
GI	5816533	Score	681
Exons	7793..8169		
GI Descrip.	5922636/dbj BAA84637.1  1.0e-14 (AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] >gi_6016869 dbj BAA85212.1 (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77623	Strand	+
Start	4401	End	8770
Name	OJ990429_24.0128.C37.o3.gp	Method	AAT/GAP
Start	8421	End	8770
GI	3762269	Score	583
Exons	8421..8770		
GI Descrip.	6016845/dbj AP000570.1 AP000570 1.0e-128 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77624	Strand	+
Start	9196	End	9713
Name	OJ990429_24.0128.C37.o4.gs	Method	GENSCAN
Start	9196	End	9713
GI	none	Score	.98
Exons	9196..9211, 9286..9713		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77625	Strand	-
Start	2199	End	3770
Name	OJ990429_24.0128.C37.o1.np	Method	AAT/NAP
Start	2199	End	3770
GI	5042425	Score	1236
Exons	2199..3770		
GI Descrip.	(AC006193) Putative Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77625	Strand	-
Start	2199	End	3770
Name	OJ990429_24.0128.C37.o2.gs	Method	GENSCAN
Start	2199	End	3770
GI	none	Score	1
Exons	2199..3770		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77626	Strand	-
Start	6766	End	11829
Name	OJ990429_24.0128.C37.o4.np	Method	AAT/NAP
Start	6766	End	11829
GI	2655098	Score	440
Exons	6766..6796, 9426..9644, 9945..10112, 11807..11829		
GI Descrip.	(AF023472) peptide transporter [Hordeum vulgare]		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77626	Strand	-
Start	6766	End	11829
Name	OJ990429_24.0128.C37.o5.gs	Method	GENSCAN
Start	9950	End	10518
GI	none	Score	.71
Exons	9950..10177, 10447..10518		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77626	Strand	-
Start	6766	End	11829
Name	OJ990429_24.0128.C37.o5.np	Method	AAT/NAP
Start	10738	End	11284
GI	5777617	Score	69
Exons	10738..10969, 11212..11284		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o1.tc	Method	TRIAXT:Cress
Start	2206	End	15300
GI	none	Score	212
Exons	2206..2409, 2241..2447, 2454..2678, 2457..2657, 2458..2679, 2676..2873, 2725..2901, 2847..2948, 2896..2925, 2934..3110, 3111..3272, 3255..3407, 4527..4640, 4533..4673, 4730..4909, 4731..4913, 4889..4963, 4890..5036, 5215..5289, 5241..5429, 5263..5430, 5476..5685, 5478..5681, 5691..5909, 5692..5898, 13866..14078, 13963..14070, 14115..14324, 14125..14322, 14370..14537, 14383..14559, 14526..14585, 14625..14762, 14763..14912, 14836..14913, 14940..15077, 15000..15056,		

15172..15300

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.ol.tm	Method	TBLASTX:Maize
Start	2209	End	14889
GI	none	Score	64
Exons	2209..2298, 2241..2729, 2268..2654, 2275..2682, 2718..2879, 2725..2850, 2877..2921, 2970..3005, 3117..3230, 3258..3404, 4910..4963, 4914..5027, 5037..5096, 5040..5138, 5221..5265, 5238..5417, 5260..5415, 5476..5898, 5478..5894, 13869..13949, 13935..14324, 13990..14322, 13992..14324, 14383..14562, 14385..14540, 14535..14579, 14625..14660, 14661..14759, 14703..14762, 14772..14885, 14836..14889		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.ol.tw	Method	TBLASTX:Wheat
Start	2212	End	14229
GI	none	Score	409
Exons	2212..2562, 2235..2567, 5571..5909, 5572..5904, 5893..5928, 13872..14228, 13897..14229		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.ol.ts	Method	TBLASTX:Soybean
Start	2241	End	15077
GI	none	Score	92
Exons	2241..2282, 2301..2441, 2302..2403, 2442..2693, 2458..2685, 2727..2861, 2728..2847, 2865..2975, 3102..3236, 3264..3452, 3447..3563, 4701..4955, 4908..5042, 5275..5430, 5283..5429, 5476..5709, 5478..5693, 5697..5792, 5698..5838, 13962..14069, 14005..14064, 14112..14324, 14125..14322, 14367..14519, 14377..14517, 14757..14870, 14916..15077		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o2.tw	Method	TBLASTX:Wheat
Start	3273	End	15291
GI	none	Score	90
Exons	3273..3407, 3426..3524, 3426..3509, 3516..3599, 3555..3617, 4530..4616, 4742..4867, 4746..4880, 4773..4880, 14943..15110, 14959..15081, 15085..15201, 15205..15291		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o2.tm	Method	TBLASTX:Maize
Start	3405	End	15307
GI	none	Score	217
Exons	3405..3659, 3405..3629, 3605..3658, 4527..4901, 4533..4889, 14937..15056, 14937..15089, 14938..15087, 15079..15228, 15079..15306, 15083..15307		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o3.tm	Method	TBLASTX:Maize
Start	9404	End	10132
GI	none	Score	136
Exons	9404..9535, 9417..9536, 9527..9643, 9561..9647, 9951..10112, 9953..10111, 10019..10132		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o2.tc	Method	TBLASTX:Cress
Start	9417	End	10012
GI	none	Score	59
Exons	9417..9533, 9425..9532, 9527..9643, 9528..9647, 9953..10012		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o2.ts	Method	TBLASTX:Soybean
Start	9548	End	10099
GI	none	Score	92
Exons	9548..9643, 9561..9647, 9951..10091, 9953..10099		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o6.gs	Method	GENSCAN
Start	13785	End	15420
GI	none	Score	.83
Exons	13785..15017, 15052..15420		

Seq. No.	37756	Seq. ID	OJ990429_24.0128.C37
Gene No.	77627	Strand	-
Start	13785	End	15432
Name	OJ990429_24.0128.C37.o6.np	Method	AAT/NAP
Start	13860	End	15432
GI	5042425	Score	1089
Exons	13860..15432		
GI Descrip.	(AC006193) Putative Cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o1.gs	Method	GENSCAN
Start	600	End	1600
GI	none	Score	.87
Exons	600..1600		

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o1.np	Method	AAT/NAP
Start	603	End	1726
GI	3819164	Score	1250

Exons 603..1726  
GI Descrip. (AJ012318) cytosolic chaperonin, delta-subunit [Glycine max]

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o2.tm	Method	TBLASTX:Maize
Start	622	End	926
GI	none	Score	181
Exons	622..648, 624..770, 683..769,		789..926, 791..925

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o2.ts	Method	TBLASTX:Soybean
Start	630	End	926
GI	none	Score	140
Exons	630..776, 686..766, 777..926,		791..925

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o2.tc	Method	TBLASTX:Cress
Start	639	End	893
GI	none	Score	123
Exons	639..776, 686..766, 791..850,		795..893

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o1.ts	Method	TBLASTX:Soybean
Start	1026	End	1655
GI	none	Score	798
Exons	1026..1655, 1029..1088, 1043..		1135, 1235..1654

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o3.tm	Method	TBLASTX:Maize
Start	1043	End	1247
GI	none	Score	220
Exons	1043..1135, 1044..1247, 1191..		1241

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o1.tw	Method	TBLASTX:Wheat
Start	1097	End	1550
GI	none	Score	589
Exons	1097..1132, 1098..1550, 1191..		1550

Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.o1.tc	Method	TBLASTX:Cress
Start	1191	End	1634
GI	none	Score	533

Exons	1191..1577, 1235..1570, 1547..1633, 1554..1634		
Seq. No.	37757	Seq. ID	OJ990429_24.0128.C38
Gene No.	77628	Strand	+
Start	600	End	1726
Name	OJ990429_24.0128.C38.ol.tm	Method	TBLASTX:Maize
Start	1250	End	1660
GI	none	Score	603
Exons	1250..1660, 1251..1655, 1289..1660		

Seq. No.	37758	Seq. ID	OJ990429_24.0128.C40
Gene No.	77629	Strand	-
Start	18	End	1035
Name	OJ990429_24.0128.C40.ol.gs	Method	GENSCAN
Start	18	End	1035
GI	none	Score	.54
Exons	18..361, 499..714, 768..1035		

Seq. No.	37759	Seq. ID	OJ990429_24.0128.C41
Gene No.	77630	Strand	+
Start	19	End	177
Name	OJ990429_24.0128.C41.ol.gs	Method	GENSCAN
Start	19	End	177
GI	none	Score	.9
Exons	19..177		

Seq. No.	37760	Seq. ID	OJ990429_24.0128.C42
Gene No.	77631	Strand	+
Start	334	End	426
Name	OJ990429_24.0128.C42.ol.gs	Method	GENSCAN
Start	334	End	426
GI	none	Score	.57
Exons	334..426		

Seq. No.	37761	Seq. ID	OJ990429_24.0128.C43
Gene No.	77632	Strand	+
Start	16	End	159
Name	OJ990429_24.0128.C43.ol.gs	Method	GENSCAN
Start	16	End	159
GI	none	Score	.96
Exons	16..159		

Seq. No.	37762	Seq. ID	OJ990429_24.0128.C44
Gene No.	77633	Strand	+
Start	1	End	1390
Name	OJ990429_24.0128.C44.ol.np	Method	AAT/NAP
Start	1	End	1390
GI	3763933	Score	276
Exons	1..145, 711..767, 958..1035, 1104..1185, 1277..1390		
GI Descrip.	(AC004450) unknown protein [Arabidopsis thaliana]		

Seq. No.	37762	Seq. ID	OJ990429_24.0128.C44
Gene No.	77633	Strand	+
Start	1	End	1390
Name	OJ990429_24.0128.C44.ol.tm	Method	TBLASTX:Maize
Start	21	End	1336
GI	none	Score	190



Exons 21..104, 22..141, 23..145, 684..767, 709..768, 710..763,  
956..1033, 956..1033, 957..1049, 958..1050, 1102..1197,  
1129..1194, 1134..1214, 1190..1336, 1261..1335

Seq. No.	37762	Seq. ID	OJ990429_24.0128.C44
Gene No.	77633	Strand	+
Start	1	End	1390
Name	OJ990429_24.0128.C44.ol.gs	Method	GENSCAN
Start	44	End	1336
GI	none	Score	.8
Exons	44..145, 711..767, 958..1035, 1277..1336		

Seq. No.	37763	Seq. ID	OJ990429_24.0128.C46
Gene No.	77634	Strand	+
Start	132	End	760
Name	OJ990429_24.0128.C46.ol.gs	Method	GENSCAN
Start	132	End	760
GI	none	Score	.65
Exons	132..241, 498..760		

Seq. No.	37764	Seq. ID	OJ990429_24.0128.C47
Gene No.	77635	Strand	+
Start	1226	End	1343
Name	OJ990429_24.0128.C47.ol.gp	Method	AAT/GAP
Start	1226	End	1343
GI	none	Score	227
Exons	1226..1343		

Seq. No.	37764	Seq. ID	OJ990429_24.0128.C47
Gene No.	77636	Strand	-
Start	85	End	978
Name	OJ990429_24.0128.C47.ol.gs	Method	GENSCAN
Start	85	End	978
GI	none	Score	.71
Exons	85..384, 474..836, 928..978		

Seq. No.	37765	Seq. ID	OJ990429_24.0128.C49
Gene No.	77637	Strand	+
Start	176	End	259
Name	OJ990429_24.0128.C49.ol.gs	Method	GENSCAN
Start	176	End	259
GI	none	Score	.78
Exons	176..259		

Seq. No.	37766	Seq. ID	OJ990429_24.0128.C50
Gene No.	77638	Strand	-
Start	1	End	732
Name	OJ990429_24.0128.C50.ol.np	Method	AAT/NAP
Start	1	End	732
GI	6598863	Score	265
Exons	1..32, 371..732		
GI Descrip.	(AC010556) unknown protein [Arabidopsis thaliana]		

Seq. No.	37766	Seq. ID	OJ990429_24.0128.C50
Gene No.	77638	Strand	-
Start	1	End	732
Name	OJ990429_24.0128.C50.ol.tm	Method	TBLASTX:Maize

Start	373	End	732
GI	none	Score	152
Exons	373..477, 377..478, 478..672, 480..695, 666..731, 679..732		

Seq. No.	37766	Seq. ID	OJ990429_24.0128.C50
Gene No.	77638	Strand	-
Start	1	End	732
Name	OJ990429_24.0128.C50.o1.ts	Method	TBLASTX:Soybean
Start	373	End	731
GI	none	Score	98
Exons	373..477, 377..478, 483..671, 484..672, 678..731		

Seq. No.	37766	Seq. ID	OJ990429_24.0128.C50
Gene No.	77638	Strand	-
Start	1	End	732
Name	OJ990429_24.0128.C50.o1.gs	Method	GENSCAN
Start	374	End	718
GI	none	Score	.68
Exons	374..543, 549..660, 666..718		

Seq. No.	37767	Seq. ID	OJ990429_24.0128.C51
Gene No.	77639	Strand	+
Start	23	End	440
Name	OJ990429_24.0128.C51.o1.gs	Method	GENSCAN
Start	23	End	440
GI	none	Score	.43
Exons	23..116, 189..440		

Seq. No.	37768	Seq. ID	OJ990429_24.0128.C53
Gene No.	77640	Strand	+
Start	185	End	234
Name	OJ990429_24.0128.C53.o1.gs	Method	GENSCAN
Start	185	End	234
GI	none	Score	.9
Exons	185..234		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77641	Strand	+
Start	9385	End	10040
Name	OJ990929_14.0103.C3.o3.gs	Method	GENSCAN
Start	9385	End	10040
GI	none	Score	.93
Exons	9385..9426, 9855..10040		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77642	Strand	+
Start	14654	End	15100
Name	OJ990929_14.0103.C3.o5.gs	Method	GENSCAN
Start	14654	End	15100
GI	none	Score	.87
Exons	14654..14742, 14756..14937, 15027..15100		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77643	Strand	+
Start	16023	End	21668
Name	OJ990929_14.0103.C3.o6.gs	Method	GENSCAN
Start	16023	End	16961

GI	none	Score	.7
Exons	16023..16175, 16677..16961		
Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77643	Strand	+
Start	16023	End	21668
Name	OJ990929_14.0103.C3.o3.np	Method	AAT/NAP
Start	16599	End	21668
GI	5042448	Score	255
Exons	16599..16904, 18325..18386, 20245..20651, 21589..21668		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77643	Strand	+
Start	16023	End	21668
Name	OJ990929_14.0103.C3.o7.gs	Method	GENSCAN
Start	18846	End	20590
GI	none	Score	.53
Exons	18846..18942, 19191..19258, 19382..19544, 19824..20590		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77644	Strand	+
Start	23591	End	24294
Name	OJ990929_14.0103.C3.o9.gs	Method	GENSCAN
Start	23591	End	24294
GI	none	Score	.69
Exons	23591..23719, 24205..24294		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77645	Strand	-
Start	1661	End	2446
Name	OJ990929_14.0103.C3.o1.gs	Method	GENSCAN
Start	1661	End	2446
GI	none	Score	.89
Exons	1661..1680, 1756..2446		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77646	Strand	-
Start	4744	End	5226
Name	OJ990929_14.0103.C3.o2.gs	Method	GENSCAN
Start	4744	End	5226
GI	none	Score	.97
Exons	4744..5226		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77647	Strand	-
Start	7284	End	14924
Name	OJ990929_14.0103.C3.o1.np	Method	AAT/NAP
Start	7284	End	12666
GI	4680179	Score	844
Exons	7284..7327, 11906..12666		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77647	Strand	-
Start	7284	End	14924

Name	OJ990929_14.0103.C3.o4.gs	Method	GENSCAN
Start	10202	End	13946
GI	none	Score	.64
Exons	10202..10428, 10696..10795, 11951..12271, 12493..12666, 13935..13946		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77647	Strand	-
Start	7284	End	14924
Name	OJ990929_14.0103.C3.o2.np	Method	AAT/NAP
Start	12965	End	14924
GI	5042448	Score	199
Exons	12965..13183, 13238..13343, 14890..14924		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77648	Strand	-
Start	19683	End	23822
Name	OJ990929_14.0103.C3.o2.tm	Method	TBLASTX:Maize
Start	11858	End	12190
GI	none	Score	104
Exons	11858..12190, 11927..12190		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77648	Strand	-
Start	19683	End	23822
Name	OJ990929_14.0103.C3.o1.tw	Method	TBLASTX:Wheat
Start	12071	End	12415
GI	none	Score	134
Exons	12071..12400, 12071..12415		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77648	Strand	-
Start	19683	End	23822
Name	OJ990929_14.0103.C3.o4.np	Method	AAT/NAP
Start	19683	End	23822
GI	6907106	Score	313
Exons	19683..19942, 19995..20208, 23467..23822		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77648	Strand	-
Start	19683	End	23822
Name	OJ990929_14.0103.C3.o1.tm	Method	TBLASTX:Maize
Start	23558	End	23749
GI	none	Score	217
Exons	23558..23749, 23603..23668, 23662..23748		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77648	Strand	-
Start	19683	End	23822
Name	OJ990929_14.0103.C3.o1.tc	Method	TBLASTX:Cress
Start	23590	End	23749
GI	none	Score	211
Exons	23590..23748, 23591..23749		

Seq. No.	37769	Seq. ID	OJ990929_14.0103.C3
Gene No.	77648	Strand	-
Start	19683	End	23822
Name	OJ990929_14.0103.C3.ol.ts	Method	TBLASTX:Soybean
Start	23590	End	23749
GI	none	Score	216
Exons	23590..23748, 23591..23749		

Seq. No.	37770	Seq. ID	OJ990929_14.0103.C4
Gene No.	77649	Strand	+
Start	27	End	379
Name	OJ990929_14.0103.C4.ol.gs	Method	GENSCAN
Start	27	End	379
GI	none	Score	.77
Exons	27..172, 227..379		

Seq. No.	37771	Seq. ID	OJ990929_14.0103.C6
Gene No.	77650	Strand	+
Start	282	End	1032
Name	OJ990929_14.0103.C6.ol.gs	Method	GENSCAN
Start	282	End	923
GI	none	Score	.99
Exons	282..923		

Seq. No.	37771	Seq. ID	OJ990929_14.0103.C6
Gene No.	77650	Strand	+
Start	282	End	1032
Name	OJ990929_14.0103.C6.ol.tc	Method	TBLASTX:Cress
Start	320	End	596
GI	none	Score	185
Exons	320..499, 342..596		

Seq. No.	37771	Seq. ID	OJ990929_14.0103.C6
Gene No.	77650	Strand	+
Start	282	End	1032
Name	OJ990929_14.0103.C6.ol.ts	Method	TBLASTX:Soybean
Start	338	End	884
GI	none	Score	191
Exons	338..589, 339..596, 657..884, 665..856		

Seq. No.	37771	Seq. ID	OJ990929_14.0103.C6
Gene No.	77650	Strand	+
Start	282	End	1032
Name	OJ990929_14.0103.C6.ol.tm	Method	TBLASTX:Maize
Start	339	End	886
GI	none	Score	205
Exons	339..596, 407..592, 656..886, 657..884		

Seq. No.	37771	Seq. ID	OJ990929_14.0103.C6
Gene No.	77650	Strand	+
Start	282	End	1032
Name	OJ990929_14.0103.C6.ol.np	Method	AAT/NAP
Start	340	End	1032
GI	6862923	Score	282
Exons	340..1032		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	37772	Seq. ID	OJ990929_14.0103.C9
Gene No.	77651	Strand	+
Start	1	End	3932
Name	OJ990929_14.0103.C9.o1.np	Method	AAT/NAP
Start	1	End	3932
GI	5852180	Score	442
Exons	1..37, 2336..2389, 3373..3490, 3529..3932		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37772	Seq. ID	OJ990929_14.0103.C9
Gene No.	77652	Strand	-
Start	2238	End	2620
Name	OJ990929_14.0103.C9.o1.gp	Method	AAT/GAP
Start	2238	End	2620
GI	uC-osflcyp033a04b1	Score	628
Exons	2238..2620		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77653	Strand	+
Start	1545	End	13099
Name	OJ990929_14.0103.C10.o2.np	Method	AAT/NAP
Start	1545	End	6607
GI	5295955	Score	580
Exons	1545..1570, 1879..1950, 4048..4117, 4659..4773, 5455..5552, 5585..5923, 6016..6607		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77653	Strand	+
Start	1545	End	13099
Name	OJ990929_14.0103.C10.o2.gs	Method	GENSCAN
Start	2079	End	3602
GI	none	Score	.84
Exons	2079..2142, 2763..2832, 3095..3246, 3339..3405, 3494..3602		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77653	Strand	+
Start	1545	End	13099
Name	OJ990929_14.0103.C10.o5.np	Method	AAT/NAP
Start	5493	End	13099
GI	6063554	Score	174
Exons	5493..5537, 9800..10028, 10318..10513, 10677..10731, 12319..12347, 12989..13099		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77653	Strand	+
Start	1545	End	13099
Name	OJ990929_14.0103.C10.o4.np	Method	AAT/NAP
Start	7469	End	9531
GI	6721561	Score	66

Exons 7469..7575, 9502..9531  
 GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77653	Strand	+
Start	1545	End	13099
Name	OJ990929_14.0103.C10.o4.gs	Method	GENSCAN
Start	10093	End	11413
GI	none	Score	.51
Exons	10093..10731, 10891..10956, 11102..11413		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77653	Strand	+
Start	1545	End	13099
Name	OJ990929_14.0103.C10.o2.gp	Method	AAT/GAP
Start	11815	End	12551
GI	101153_1.R1084	Score	364
Exons	11815..11840, 12308..12551		

GI Descrip. '5852170/emb|AL117265.1|OST17804.1.Oe-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77654	Strand	-
Start	1	End	2018
Name	OJ990929_14.0103.C10.o1.np	Method	AAT/NAP
Start	1	End	1868
GI	6523032	Score	440
Exons	1..236, 343..403, 898..944, 1049..1112, 1233..1351, 1478..1593, 1835..1868		

GI Descrip. (AL132976) flavonol synthase-like protein [Arabidopsis thaliana]

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77654	Strand	-
Start	1	End	2018
Name	OJ990929_14.0103.C10.o1.gp	Method	AAT/GAP
Start	127	End	2018
GI	none	Score	1190
Exons	127..235, 344..403, 898..965, 1049..1112, 1233..1351, 1478..1593, 1835..2018		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77654	Strand	-
Start	1	End	2018
Name	OJ990929_14.0103.C10.o1.gs	Method	GENSCAN
Start	844	End	1555
GI	none	Score	.74
Exons	844..858, 1049..1112, 1233..1351, 1478..1555		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77655	Strand	-
Start	5641	End	9179
Name	OJ990929_14.0103.C10.o3.gs	Method	GENSCAN
Start	5641	End	9179

GI	none	Score	.59
Exons	5641..5774, 5817..6030, 6038..6126, 6476..6512, 8041..8111, 8690..8945, 9075..9179		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77655	Strand	-
Start	5641	End	9179
Name	OJ990929_14.0103.C10.o3.np	Method	AAT/NAP
Start	7347	End	8111
GI	4680183	Score	125
Exons	7347..7436, 8041..8111		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77656	Strand	-
Start	12291	End	12976
Name	OJ990929_14.0103.C10.o1.tm	Method	TBLASTX:Maize
Start	77	End	1609
GI	none	Score	55
Exons	77..109, 78..254, 79..111, 110..232, 112..237, 117..248, 898..963, 900..965, 903..995, 1048..1113, 1049..1114, 1050..1115, 1226..1351, 1232..1351, 1236..1373, 1237..1374, 1474..1581, 1475..1609, 1478..1606		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77656	Strand	-
Start	12291	End	12976
Name	OJ990929_14.0103.C10.o1.ts	Method	TBLASTX:Soybean
Start	120	End	1606
GI	none	Score	115
Exons	120..254, 121..252, 352..402, 897..965, 1049..1114, 1050..1115, 1056..1121, 1232..1351, 1233..1352, 1233..1364, 1475..1594, 1478..1606, 1479..1595		

Seq. No.	37773	Seq. ID	OJ990929_14.0103.C10
Gene No.	77656	Strand	-
Start	12291	End	12976
Name	OJ990929_14.0103.C10.o5.gs	Method	GENSCAN
Start	12291	End	12976
GI	none	Score	.98
Exons	12291..12388, 12895..12976		

Seq. No.	37774	Seq. ID	OJ990929_14.0103.C11
Gene No.	77657	Strand	+
Start	5772	End	8447
Name	OJ990929_14.0103.C11.o3.gs	Method	GENSCAN
Start	5772	End	8447
GI	none	Score	.61
Exons	5772..5776, 5802..6546, 7228..7344, 7522..8447		

Seq. No.	37774	Seq. ID	OJ990929_14.0103.C11
Gene No.	77658	Strand	-
Start	1	End	269
Name	OJ990929_14.0103.C11.o1.np	Method	AAT/NAP
Start	1	End	269
GI	5852181	Score	126
Exons	1..269		



GI Descrip. (AL117265) zhb0011.1 [Oryza sativa]

Seq. No.	37774	Seq. ID	OJ990929_14.0103.C11
Gene No.	77659	Strand	-
Start	2605	End	4615
Name	OJ990929_14.0103.C11.o2.gs	Method	GENSCAN
Start	2605	End	4615
GI	none	Score	.59
Exons	2605..2752, 2918..3490, 4581..4615		

Seq. No.	37774	Seq. ID	OJ990929_14.0103.C11
Gene No.	77660	Strand	-
Start	4774	End	8471
Name	OJ990929_14.0103.C11.o2.np	Method	AAT/NAP
Start	4774	End	8471
GI	6063554	Score	159
Exons	4774..4923, 6066..6312, 8450..8471		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37775	Seq. ID	OJ990929_14.0103.C12
Gene No.	77661	Strand	-
Start	2922	End	3052
Name	OJ990929_14.0103.C12.o1.tm	Method	TBLASTX:Maize
Start	664	End	993
GI	none	Score	50
Exons	664..708, 734..958, 739..993, 762..983		

Seq. No.	37775	Seq. ID	OJ990929_14.0103.C12
Gene No.	77661	Strand	-
Start	2922	End	3052
Name	OJ990929_14.0103.C12.o2.tm	Method	TBLASTX:Maize
Start	995	End	1144
GI	none	Score	191
Exons	995..1144, 1001..1144		

Seq. No.	37775	Seq. ID	OJ990929_14.0103.C12
Gene No.	77661	Strand	-
Start	2922	End	3052
Name	OJ990929_14.0103.C12.o2.gs	Method	GENSCAN
Start	2922	End	3052
GI	none	Score	.88
Exons	2922..3027, 3033..3052		

Seq. No.	37776	Seq. ID	OJ990929_14.0103.C13
Gene No.	77662	Strand	-
Start	120	End	579
Name	OJ990929_14.0103.C13.o1.tm	Method	TBLASTX:Maize
Start	57	End	386
GI	none	Score	75
Exons	57..218, 57..245, 61..246, 305..385, 309..386		

Seq. No.	37776	Seq. ID	OJ990929_14.0103.C13
Gene No.	77662	Strand	-
Start	120	End	579
Name	OJ990929_14.0103.C13.o1.gs	Method	GENSCAN

Start 120  
GI none  
Exons 120..254, 314..579

End 579  
Score .55

Seq. No. 37777  
Gene No. 77663  
Start 104  
Name OJ990929\_14.0103.C14.o1.gs  
Start 104  
GI none  
Exons 104..240

Seq. ID OJ990929\_14.0103.C14  
Strand -  
End 240  
Method GENSCAN  
End 240  
Score .41

Seq. No. 37778  
Gene No. 77664  
Start 6104  
Name OJ990929\_14.0103.C15.o2.gs  
Start 6104  
GI none  
Exons 6104..6237, 6359..6371

Seq. ID OJ990929\_14.0103.C15  
Strand +  
End 6371  
Method GENSCAN  
End 6371  
Score .47

Seq. No. 37778  
Gene No. 77665  
Start 7034  
Name OJ990929\_14.0103.C15.o3.gs  
Start 7034  
GI none  
Exons 7034..7185

Seq. ID OJ990929\_14.0103.C15  
Strand -  
End 7185  
Method GENSCAN  
End 7185  
Score .55

Seq. No. 37779  
Gene No. 77666  
Start 411  
Name OJ990929\_14.0103.C16.o1.gs  
Start 411  
GI none  
Exons 411..461

Seq. ID OJ990929\_14.0103.C16  
Strand +  
End 461  
Method GENSCAN  
End 461  
Score .5

Seq. No. 37780  
Gene No. 77667  
Start 336  
Name OJ990909\_16.0118.C1.o1.gs  
Start 336  
GI none  
Exons 336..540, 656..843

Seq. ID OJ990909\_16.0118.C1  
Strand +  
End 843  
Method GENSCAN  
End 843  
Score .63

Seq. No. 37781  
Gene No. 77668  
Start 1  
Name OJ990909\_16.0118.C3.o1.np  
Start 1  
GI 4680179  
Exons 1..317  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ990909\_16.0118.C3  
Strand -  
End 317  
Method AAT/NAP  
End 317  
Score 429

Seq. No. 37781  
Gene No. 77668  
Start 1  
Name OJ990909\_16.0118.C3.o1.tw

Seq. ID OJ990909\_16.0118.C3  
Strand -  
End 317  
Method TBLASTX:Wheat

Start 1  
GI none  
Exons 1..294, 2..259, 7..261

End 294  
Score 142

Seq. No. 37781  
Gene No. 77668  
Start 1  
Name OJ990909\_16.0118.C3.o1.gs  
Start 20  
GI none  
Exons 20..226

Seq. ID OJ990909\_16.0118.C3  
Strand -  
End 317  
Method GENSCAN  
End 226  
Score .97

Seq. No. 37781  
Gene No. 77668  
Start 1  
Name OJ990909\_16.0118.C3.o1.tm  
Start 52  
GI none  
Exons 52..315, 53..316, 68..268

Seq. ID OJ990909\_16.0118.C3  
Strand -  
End 317  
Method TBLASTX:Maize  
End 316  
Score 109

Seq. No. 37782  
Gene No. 77669  
Start 263  
Name OJ990909\_16.0118.C4.o1.gp  
Start 263  
GI uC-osflcyp033a04b1  
Exons 263..529

Seq. ID OJ990909\_16.0118.C4  
Strand +  
End 529  
Method AAT/GAP  
End 529  
Score 432

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 37783  
Gene No. 77670  
Start 523  
Name OJ990909\_16.0118.C5.o1.gs  
Start 523  
GI none  
Exons 523..941

Seq. ID OJ990909\_16.0118.C5  
Strand +  
End 941  
Method GENSCAN  
End 941  
Score .97

Seq. No. 37783  
Gene No. 77671  
Start 1256  
Name OJ990909\_16.0118.C5.o1.np  
Start 1256  
GI 5091513  
Exons 1256..2076

Seq. ID OJ990909\_16.0118.C5  
Strand +  
End 2076  
Method AAT/NAP  
End 2076  
Score 734

GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No. 37783  
Gene No. 77671  
Start 1256  
Name OJ990909\_16.0118.C5.o2.gs  
Start 1516  
GI none  
Exons 1516..1932

Seq. ID OJ990909\_16.0118.C5  
Strand +  
End 2076  
Method GENSCAN  
End 1932  
Score .95

Seq. No. 37783  
Gene No. 77672

Seq. ID OJ990909\_16.0118.C5  
Strand +

Start	4636	End	8045
Name	OJ990909_16.0118.C5.o4.np	Method	AAT/NAP
Start	4636	End	6585
GI	4680186	Score	241
Exons	4636..4770, 6380..6585		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37783	Seq. ID	OJ990909_16.0118.C5
Gene No.	77672	Strand	+
Start	4636	End	8045
Name	OJ990909_16.0118.C5.o3.np	Method	AAT/NAP
Start	6223	End	8045
GI	5852180	Score	106
Exons	6223..6283, 7456..7824, 7921..8045		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37783	Seq. ID	OJ990909_16.0118.C5
Gene No.	77673	Strand	-
Start	159	End	443
Name	OJ990909_16.0118.C5.o1.gp	Method	AAT/GAP
Start	159	End	443
GI	72524.1.R1084	Score	355
Exons	159, 443		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	37783	Seq. ID	OJ990909_16.0118.C5
Gene No.	77674	Strand	-
Start	1968	End	2239
Name	OJ990909_16.0118.C5.o2.gp	Method	AAT/GAP
Start	1968	End	2239
GI	uC-osflcyp053f07a1	Score	348
Exons	1968..2239		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-38 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	37783	Seq. ID	OJ990909_16.0118.C5
Gene No.	77675	Strand	-
Start	3203	End	8045
Name	OJ990909_16.0118.C5.o2.np	Method	AAT/NAP
Start	3203	End	8045
GI	6063554	Score	171
Exons	3203..3375, 4531..4773, 7738..7919, 8005..8045		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37783	Seq. ID	OJ990909_16.0118.C5
Gene No.	77675	Strand	-
Start	3203	End	8045
Name	OJ990909_16.0118.C5.o3.gp	Method	AAT/GAP
Start	6132	End	6513
GI	uC-osflcyp033a04b1	Score	671
Exons	6132..6513		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37783	Seq. ID	OJ990909_16.0118.C5
Gene No.	77675	Strand	-
Start	3203	End	8045
Name	OJ990909_16.0118.C5.o5.np	Method	AAT/NAP
Start	6978	End	8045
GI	6907087	Score	603
Exons	6978..7079, 7619..8045		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o1.np	Method	AAT/NAP
Start	1	End	1905
GI	5091513	Score	390
Exons	1..51, 1142..1905		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o1.gs	Method	GENSCAN
Start	1102	End	11507
GI	none	Score	.52
Exons	1102..1395, 1400..1601, 1844..2109, 5150..5257, 5499..5589, 7016..7118, 7422..7543, 7810..8278, 8383..8566, 8792..8977, 9367..9535, 9988..10177, 11397..11507		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o1.gp	Method	AAT/GAP
Start	2917	End	3844
GI	72524_1.R1084	Score	419
Exons	2917..2942, 3538..3844		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o1.tm	Method	TBLASTX:Maize
Start	8124	End	10429
GI	none	Score	117
Exons	8124..8273, 8177..8272, 8395..8430, 8396..8569, 8506..8568, 8789..8977, 8789..8941, 8791..8979, 8811..8987, 9379..9534, 9386..9544, 9387..9512, 9988..10176, 9989..10177, 9990..10175, 10294..10428, 10295..10429		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o2.np	Method	AAT/NAP
Start	8157	End	10420
GI	2459446	Score	674

Exons 8157..8277, 8394..8566, 8792..8977, 9367..9542, 9995..10182, 10296..10420  
 GI Descrip. (AC002332) putative cinnamoyl-CoA reductase [Arabidopsis thaliana]

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o2.tc	Method	TBLASTX:Cress
Start	8180	End	8851
GI	none	Score	70
Exons	8180..8287, 8181..8255, 8405..8569, 8405..8566, 8768..8851		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o2.gp	Method	AAT/GAP
Start	8235	End	9422
GI	uC-osflcyp037c05b1	Score	831
Exons	8235..8278, 8397..8566, 8792..8978, 9367..9422		
GI Descrip.	'2459448 7.0e-33 (AC002332) putative cinnamoyl-CoA reductase [Arabidopsis thaliana]'		

Seq. No.	37784	Seq. ID	OJ990909_16.0118.C6
Gene No.	77676	Strand	+
Start	1	End	11507
Name	OJ990909_16.0118.C6.o1.tc	Method	TBLASTX:Cress
Start	9379	End	10399
GI	none	Score	118
Exons	9379..9489, 9995..10180, 9996..10178, 10295..10399, 10297..10383		

Seq. No.	37785	Seq. ID	OJ990909_16.0118.C7
Gene No.	77677	Strand	+
Start	164	End	901
Name	OJ990909_16.0118.C7.o1.gs	Method	GENSCAN
Start	164	End	901
GI	none	Score	.6
Exons	164..576, 753..901		

Seq. No.	37786	Seq. ID	OJ990909_16.0118.C8
Gene No.	77678	Strand	+
Start	2025	End	2112
Name	OJ990909_16.0118.C8.o1.gs	Method	GENSCAN
Start	2025	End	2112
GI	none	Score	.59
Exons	2025..2112		

Seq. No.	37787	Seq. ID	OJ990909_16.0118.C9
Gene No.	77679	Strand	+
Start	1	End	1824
Name	OJ990909_16.0118.C9.o1.np	Method	AAT/NAP
Start	1	End	1824
GI	6063554	Score	355
Exons	1..322, 984..1014, 1651..1824		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37787	Seq. ID	OJ990909_16.0118.C9
Gene No.	77679	Strand	+
Start	1	End	1824
Name	OJ990909_16.0118.C9.o1.gs	Method	GENSCAN
Start	66	End	1086
GI	none	Score	.78
Exons	66..335, 389..474, 986..1086		

Seq. No.	37787	Seq. ID	OJ990909_16.0118.C9
Gene No.	77679	Strand	+
Start	1	End	1824
Name	OJ990909_16.0118.C9.o1.gp	Method	AAT/GAP
Start	480	End	1216
GI	101153_1.R1084	Score	395
Exons	480..517, 966..1216		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37787	Seq. ID	OJ990909_16.0118.C9
Gene No.	77680	Strand	+
Start	2582	End	4709
Name	OJ990909_16.0118.C9.o3.gp	Method	AAT/GAP
Start	2193	End	2450
GI	61605_1.R1084	Score	423
Exons	2193..2450		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37787	Seq. ID	OJ990909_16.0118.C9
Gene No.	77680	Strand	+
Start	2582	End	4709
Name	OJ990909_16.0118.C9.o2.gs	Method	GENSCAN
Start	2582	End	4709
GI	none	Score	.99
Exons	2582..2715, 4498..4709		

Seq. No.	37788	Seq. ID	OJ990909_16.0118.C10
Gene No.	77681	Strand	+
Start	3406	End	4803
Name	OJ990909_16.0118.C10.o2.gs	Method	GENSCAN
Start	3406	End	4803
GI	none	Score	.54
Exons	3406..3847, 3901..4008, 4016..4473, 4497..4803		

Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o1.np	Method	AAT/NAP
Start	1	End	1856
GI	4206306	Score	784
Exons	1..42, 353..1856		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856

Name	OJ990909_16.0118.C11.o1.gs	Method	GENSCAN
Start	217	End	1374
GI	none	Score	.98
Exons	217..1374		
Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o2.ts	Method	TBLASTX:Soybean
Start	457	End	822
GI	none	Score	134
Exons	457..681, 688..822		
Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o1.tw	Method	TBLASTX:Wheat
Start	619	End	1023
GI	none	Score	82
Exons	619..675, 624..665, 670..1023, 678..980, 679..1023		
Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o2.tm	Method	TBLASTX:Maize
Start	673	End	891
GI	none	Score	293
Exons	673..891, 673..873, 678..887		
Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o1.tm	Method	TBLASTX:Maize
Start	892	End	1353
GI	none	Score	564
Exons	892..1353, 892..1281, 1227..1352		
Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o2.tw	Method	TBLASTX:Wheat
Start	1024	End	1359
GI	none	Score	206
Exons	1024..1359, 1041..1304		
Seq. No.	37789	Seq. ID	OJ990909_16.0118.C11
Gene No.	77682	Strand	+
Start	1	End	1856
Name	OJ990909_16.0118.C11.o1.ts	Method	TBLASTX:Soybean
Start	1039	End	1320
GI	none	Score	223
Exons	1039..1320, 1077..1172		
Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77683	Strand	+
Start	1	End	1247
Name	OJ990909_16.0118.C12.o1.np	Method	AAT/NAP



Start	1	End	1226
GI	4544372	Score	593
Exons	1..1226		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77683	Strand	+
Start	1	End	1247
Name	OJ990909_16.0118.C12.o1.gs	Method	GENSCAN
Start	333	End	1247
GI	none	Score	.79
Exons	333..567, 655..1247		

Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77684	Strand	-
Start	1558	End	4797
Name	OJ990909_16.0118.C12.o2.ts	Method	TBLASTX:Soybean
Start	333	End	554
GI	none	Score	188
Exons	333..554, 350..466		

Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77684	Strand	-
Start	1558	End	4797
Name	OJ990909_16.0118.C12.o2.tw	Method	TBLASTX:Wheat
Start	401	End	767
GI	none	Score	196
Exons	401..577, 402..767		

Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77684	Strand	-
Start	1558	End	4797
Name	OJ990909_16.0118.C12.o1.tw	Method	TBLASTX:Wheat
Start	804	End	1211
GI	none	Score	223
Exons	804..1211, 1004..1177		

Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77684	Strand	-
Start	1558	End	4797
Name	OJ990909_16.0118.C12.o1.ts	Method	TBLASTX:Soybean
Start	987	End	1232
GI	none	Score	246
Exons	987..1232, 987..1154, 989..1159, 1199..1228		

Seq. No.	37790	Seq. ID	OJ990909_16.0118.C12
Gene No.	77684	Strand	-
Start	1558	End	4797
Name	OJ990909_16.0118.C12.o2.gs	Method	GENSCAN
Start	1558	End	4797
GI	none	Score	.96
Exons	1558..2244, 2322..2426, 2711..3020, 3214..4601, 4700..4797		

Seq. No.	37791	Seq. ID	OJ990909_16.0118.C13
Gene No.	77685	Strand	+
Start	98	End	159

Name	OJ990909_16.0118.C13.o1.gs	Method	GENSCAN
Start	98	End	159
GI	none	Score	1
Exons	98..159		
Seq. No.	37792	Seq. ID	OJ990909_16.0118.C14
Gene No.	77686	Strand	+
Start	171	End	1230
Name	OJ990909_16.0118.C14.o1.gs	Method	GENSCAN
Start	171	End	1230
GI	none	Score	.65
Exons	171..387, 1090..1230		
Seq. No.	37793	Seq. ID	OJ990909_16.0118.C15
Gene No.	77687	Strand	-
Start	329	End	1322
Name	OJ990909_16.0118.C15.o1.gs	Method	GENSCAN
Start	329	End	1322
GI	none	Score	.62
Exons	329..502, 788..852, 1097..1322		
Seq. No.	37793	Seq. ID	OJ990909_16.0118.C15
Gene No.	77688	Strand	-
Start	2309	End	2776
Name	OJ990909_16.0118.C15.o2.gs	Method	GENSCAN
Start	2309	End	2776
GI	none	Score	.81
Exons	2309..2464, 2573..2776		
Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77689	Strand	+
Start	2367	End	6180
Name	OJ990909_16.0118.C16.o2.np	Method	AAT/NAP
Start	2367	End	6180
GI	5852180	Score	590
Exons	2367..2420, 3408..3524, 5769..6180		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77690	Strand	-
Start	1	End	1339
Name	OJ990909_16.0118.C16.o1.np	Method	AAT/NAP
Start	1	End	1339
GI	729704	Score	84
Exons	1..153, 397..447, 640..735, 1307..1339		
GI Descrip.	DNA-BINDING PROTEIN HEXBP (HEXAMER-BINDING PROTEIN) gi 1078700 pir  A47156 hexamer-binding protein HEXBP - Leishmania major gi 159342 (M94390) .HEXBP DNA binding protein [Leishmania major]		
Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77690	Strand	-
Start	1	End	1339
Name	OJ990909_16.0118.C16.o1.gs	Method	GENSCAN
Start	50	End	753
GI	none	Score	.51
Exons	50..753		

Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77691	Strand	-
Start	1292	End	2279
Name	OJ990909_16.0118.C16.o2.gs	Method	GENSCAN
Start	1292	End	2279
GI	none	Score	.7
Exons	1292..1413, 1815..1843, 2203..2279		

Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77692	Strand	-
Start	2281	End	2654
Name	OJ990909_16.0118.C16.o1.gp	Method	AAT/GAP
Start	2281	End	2654
GI	uC-osflcyp033a04b1	Score	493
Exons	2281..2654		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77693	Strand	-
Start	4717	End	4840
Name	OJ990909_16.0118.C16.o2.gp	Method	AAT/GAP
Start	4717	End	4840
GI	uC-osflcyp033a04b1	Score	196
Exons	4717..4840		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37794	Seq. ID	OJ990909_16.0118.C16
Gene No.	77694	Strand	-
Start	8236	End	8806
Name	OJ990909_16.0118.C16.o3.np	Method	AAT/NAP
Start	8236	End	8806
GI	6721561	Score	371
Exons	8236..8539, 8565..8806		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77695	Strand	+
Start	1075	End	6356
Name	OJ990909_16.0118.C17.o3.np	Method	AAT/NAP
Start	1075	End	6356
GI	4680186	Score	249
Exons	1075..1095, 5262..5315, 6151..6356		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.np	Method	AAT/NAP
Start	1	End	3964
GI	4680179	Score	4665

Exons 1..2869, 2903..3964  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o7.tm	Method	TBLASTX:Maize
Start	2	End	191
GI	none	Score	108
Exons	2..190, 3..191		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o2.tw	Method	TBLASTX:Wheat
Start	6	End	3636
GI	none	Score	187
Exons	6..416, 11..472, 3586..3636		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.gs	Method	GENSCAN
Start	69	End	6180
GI	none	Score	.47
Exons	69..3961, 4185..4213, 4252..5017, 6115..6180		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o2.tm	Method	TBLASTX:Maize
Start	194	End	514
GI	none	Score	182
Exons	194..502, 197..514, 252..503		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o2.ts	Method	TBLASTX:Soybean
Start	430	End	691
GI	none	Score	152
Exons	430..561, 431..691, 432..686		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.tc	Method	TBLASTX:Cress
Start	455	End	772
GI	none	Score	76
Exons	455..598, 456..596, 599..772		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.tw	Method	TBLASTX:Wheat
Start	479	End	1218
GI	none	Score	260

Exons 479..943, 479..1057, 483..1046, 1144..1218

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o4.tm	Method	TBLASTX:Maize
Start	515	End	829
GI	none	Score	115
Exons	515..829, 516..719		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.tm	Method	TBLASTX:Maize
Start	1046	End	1400
GI	none	Score	240
Exons	1046..1399, 1050..1400		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o5.tw	Method	TBLASTX:Wheat
Start	1058	End	1372
GI	none	Score	86
Exons	1058..1141, 1059..1142, 1220..1372, 1221..1367		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o3.ts	Method	TBLASTX:Soybean
Start	1220	End	1465
GI	none	Score	93
Exons	1220..1465, 1221..1448		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o3.tw	Method	TBLASTX:Wheat
Start	1373	End	1774
GI	none	Score	317
Exons	1373..1774, 1374..1772		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o3.tm	Method	TBLASTX:Maize
Start	1436	End	1936
GI	none	Score	50
Exons	1436..1771, 1479..1529, 1557..1610, 1754..1828, 1757..1936, 1806..1928		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.ts	Method	TBLASTX:Soybean
Start	1487	End	1882
GI	none	Score	186

Exons 1487..1846, 1488..1772, 1806..1844, 1850..1882, 1851..1880

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o4.tw	Method	TBLASTX:Wheat
Start	1823	End	2309
GI	none	Score	214
Exons	1823..2200, 1826..2191, 1866..2309, 2255..2305		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o2.tc	Method	TBLASTX:Cress
Start	1859	End	2176
GI	none	Score	180
Exons	1859..2176		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o5.tm	Method	TBLASTX:Maize
Start	2004	End	2294
GI	none	Score	185
Exons	2004..2294, 2006..2293		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o7.tw	Method	TBLASTX:Wheat
Start	2420	End	2842
GI	none	Score	71
Exons	2420..2587, 2475..2588, 2633..2842, 2634..2786		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o8.tm	Method	TBLASTX:Maize
Start	2525	End	2848
GI	none	Score	188
Exons	2525..2848		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o6.tw	Method	TBLASTX:Wheat
Start	3155	End	3506
GI	none	Score	107
Exons	3155..3505, 3312..3506		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o6.tm	Method	TBLASTX:Maize
Start	3200	End	3505
GI	none	Score	85
Exons	3200..3505, 3375..3491		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o1.gp	Method	AAT/GAP
Start	4288	End	4742
GI	95437_1.R1084	Score	774
Exons	4288..4742		
GI Descrip.	'4512226/dbj AB014738.1 AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete sequence'		

Seq. No.	37795	Seq. ID	OJ990909_16.0118.C17
Gene No.	77696	Strand	-
Start	1	End	6285
Name	OJ990909_16.0118.C17.o2.gp	Method	AAT/GAP
Start	5900	End	6285
GI	uC-osflcyp033a04b1	Score	669
Exons	5900..6285		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37796	Seq. ID	OJ990909_16.0118.C18
Gene No.	77697	Strand	+
Start	29	End	3115
Name	OJ990909_16.0118.C18.o1.gs	Method	GENSCAN
Start	29	End	3115
GI	none	Score	.43
Exons	29..243, 314..608, 1001..1100, 1989..2271, 2340..2501, 2863..2941, 3023..3115		

Seq. No.	37796	Seq. ID	OJ990909_16.0118.C18
Gene No.	77698	Strand	-
Start	235	End	2040
Name	OJ990909_16.0118.C18.o2.np	Method	AAT/NAP
Start	235	End	2040
GI	6721512	Score	103
Exons	235..295, 1654..1722, 1765..1897, 1925..2040		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37796	Seq. ID	OJ990909_16.0118.C18
Gene No.	77698	Strand	-
Start	235	End	2040
Name	OJ990909_16.0118.C18.o1.np	Method	AAT/NAP
Start	342	End	1106
GI	6907089	Score	256
Exons	342..1106		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37797	Seq. ID	OJ990909_16.0118.C19
Gene No.	77699	Strand	+
Start	4427	End	4501
Name	OJ990909_16.0118.C19.o1.gp	Method	AAT/GAP
Start	4427	End	4501
GI	569410	Score	131
Exons	4427..4501		

Seq. No.	37797	Seq. ID	OJ990909_16.0118.C19
Gene No.	77700	Strand	-
Start	590	End	3857
Name	OJ990909_16.0118.C19.o1.gs	Method	GENSCAN
Start	590	End	3857
GI	none	Score	.61
Exons	590..742, 2135..2197, 2637..2780, 3090..3266, 3626..3651, 3740..3857		

Seq. No.	37798	Seq. ID	OJ990909_16.0118.C20
Gene No.	77701	Strand	+
Start	617	End	6319
Name	OJ990909_16.0118.C20.o1.gs	Method	GENSCAN
Start	617	End	6319
GI	none	Score	.63
Exons	617..686, 2250..2314, 2552..2679, 2892..3147, 3257..3376, 5312..5467, 6119..6319		

Seq. No.	37798	Seq. ID	OJ990909_16.0118.C20
Gene No.	77701	Strand	+
Start	617	End	6319
Name	OJ990909_16.0118.C20.o2.np	Method	AAT/NAP
Start	2483	End	3941
GI	6523547	Score	300
Exons	2483..3639, 3886..3941		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	37798	Seq. ID	OJ990909_16.0118.C20
Gene No.	77702	Strand	-
Start	1	End	1450
Name	OJ990909_16.0118.C20.o1.np	Method	AAT/NAP
Start	1	End	1450
GI	2992160	Score	200
Exons	1..96, 170..451, 1258..1450		
GI Descrip.	(AB012392) MuDR-like element [Oryza sativa]		

Seq. No.	37798	Seq. ID	OJ990909_16.0118.C20
Gene No.	77703	Strand	-
Start	5691	End	6895
Name	OJ990909_16.0118.C20.o3.np	Method	AAT/NAP
Start	5691	End	6895
GI	2586082	Score	447
Exons	5691..6173, 6845..6895		
GI Descrip.	(U72725) retroit [Oryza longistaminata]		

Seq. No.	37798	Seq. ID	OJ990909_16.0118.C20
Gene No.	77703	Strand	-
Start	5691	End	6895
Name	OJ990909_16.0118.C20.o1.ts	Method	TBLASTX:Soybean
Start	5742	End	6084
GI	none	Score	51
Exons	5742..5957, 5823..5912, 5963..6076, 5971..6084		

Seq. No.	37798	Seq. ID	OJ990909_16.0118.C20
Gene No.	77703	Strand	-
Start	5691	End	6895



Name	OJ990909_16.0118.C20.o1.tm	Method	TBLASTX:Maize
Start	5748	End	6084
GI	none	Score	83
Exons	5748..5912, 5748..5969, 5854..5934, 5971..6033, 6040..6084		

Seq. No.	37799	Seq. ID	OJ990909_16.0118.C21
Gene No.	77704	Strand	-
Start	129	End	4814
Name	OJ990909_16.0118.C21.o1.gs	Method	GENSCAN
Start	129	End	4814
GI	none	Score	.45
Exons	129..331, 420..713, 1036..1278, 1479..1552, 1586..1799, 1931..2260, 3049..3187, 3375..3791, 4242..4814		

Seq. No.	37800	Seq. ID	OJ990909_16.0118.C22
Gene No.	77705	Strand	+
Start	1111	End	1831
Name	OJ990909_16.0118.C22.o1.gs	Method	GENSCAN
Start	1111	End	1831
GI	none	Score	.54
Exons	1111..1300, 1544..1627, 1691..1831		

Seq. No.	37800	Seq. ID	OJ990909_16.0118.C22
Gene No.	77706	Strand	+
Start	3861	End	4745
Name	OJ990909_16.0118.C22.o2.gs	Method	GENSCAN
Start	3861	End	4745
GI	none	Score	.75
Exons	3861..4140, 4154..4408, 4586..4745		

Seq. No.	37800	Seq. ID	OJ990909_16.0118.C22
Gene No.	77707	Strand	-
Start	2480	End	2929
Name	OJ990909_16.0118.C22.o1.gp	Method	AAT/GAP
Start	2480	End	2929
GI	none	Score	653
Exons	2480..2929		

Seq. No.	37800	Seq. ID	OJ990909_16.0118.C22
Gene No.	77708	Strand	-
Start	3758	End	4202
Name	OJ990909_16.0118.C22.o2.gp	Method	AAT/GAP
Start	3758	End	4202
GI	none	Score	671
Exons	3758..3814, 3893..4202		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77709	Strand	+
Start	6062	End	9119
Name	OJ990909_16.0118.C23.o2.gs	Method	GENSCAN
Start	6062	End	9119
GI	none	Score	.8
Exons	6062..6216, 6496..6695, 6862..6986, 7054..7246, 7316..7374, 7460..8223, 8358..8503, 8602..9119		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77709	Strand	+

Start	6062	End	9119
Name	OJ990909_16.0118.C23.o1.np	Method	AAT/NAP
Start	6990	End	8224
GI	6721561	Score	1068
Exons	6990..7248, 7316..7375, 7460..8224		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77710	Strand	-
Start	85	End	4104
Name	OJ990909_16.0118.C23.o1.gs	Method	GENSCAN
Start	85	End	4104
GI	none	Score	.57
Exons	85..130, 2620..2790, 2926..3087, 3562..3709, 4036..4104		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o3.gs	Method	GENSCAN
Start	9735	End	14834
GI	none	Score	.46
Exons	9735..9982, 10085..11224, 11371..11905, 12065..12230, 12272..12686, 12931..13518, 13624..14457, 14579..14633, 14700..14834		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o2.np	Method	AAT/NAP
Start	9738	End	12855
GI	5902445	Score	3065
Exons	9738..10975, 11015..12855		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o3.tw	Method	TBLASTX:Wheat
Start	9747	End	10355
GI	none	Score	80
Exons	9747..9878, 9903..10355, 10099..10206		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o5.tm	Method	TBLASTX:Maize
Start	9783	End	10049
GI	none	Score	48
Exons	9783..9866, 9817..9873, 9861..9980, 9867..10049		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241

Name	OJ990909_16.0118.C23.o4.tw	Method	TBLASTX:Wheat
Start	10479	End	10862
GI	none	Score	219
Exons	10479..10862, 10480..10854		
Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o3.tm	Method	TBLASTX:Maize
Start	10557	End	10862
GI	none	Score	171
Exons	10557..10862, 10558..10845		
Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o9.tw	Method	TBLASTX:Wheat
Start	11067	End	11372
GI	none	Score	96
Exons	11067..11372, 11071..11325		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o6.tw	Method	TBLASTX:Wheat
Start	11375	End	11771
GI	none	Score	57
Exons	11375..11536, 11415..11507, 11544..11771, 11546..11770		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o4.np	Method	AAT/NAP
Start	11379	End	21241
GI	1076802	Score	118
Exons	11379..11413, 11872..11951, 13034..13075, 16773..16892, 17201..17825, 17852..17974, 21205..21241		
GI Descrip.	extensin-like protein - maize gi 600118 emb CAA84230  (Z34465) extensin-like protein [Zea mays] gi 1096557 prf  2111476A extensin-like domain [Zea mays]		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o2.ts	Method	TBLASTX:Soybean
Start	11859	End	12285
GI	none	Score	90
Exons	11859..11939, 11935..12285, 12101..12259		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o2.tw	Method	TBLASTX:Wheat
Start	11935	End	12339
GI	none	Score	274
Exons	11935..12339, 11936..12292		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o4.tm	Method	TBLASTX:Maize
Start	12013	End	12396
GI	none	Score	144
Exons	12013..12396, 12014..12292		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o2.tm	Method	TBLASTX:Maize
Start	12424	End	12744
GI	none	Score	218
Exons	12424..12744, 12446..12718, 12478..12726		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o1.tw	Method	TBLASTX:Wheat
Start	12454	End	12883
GI	none	Score	334
Exons	12454..12882, 12455..12883		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o3.ts	Method	TBLASTX:Soybean
Start	12505	End	12870
GI	none	Score	99
Exons	12505..12639, 12646..12870		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o3.np	Method	AAT/NAP
Start	12923	End	16849
GI	5902444	Score	995
Exons	12923..14579, 14751..14858, 16796..16849		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o5.tw	Method	TBLASTX:Wheat
Start	13103	End	13558
GI	none	Score	102
Exons	13103..13339, 13124..13327, 13221..13337, 13376..13558, 13377..13550		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o8.tw	Method	TBLASTX:Wheat
Start	14141	End	14530
GI	none	Score	243
Exons	14141..14530		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o4.gs	Method	GENSCAN
Start	16204	End	16884
GI	none	Score	.7
Exons	16204..16461, 16729..16884		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o1.gp	Method	AAT/GAP
Start	18926	End	19167
GI	none	Score	422
Exons	18926..19167		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o6.gs	Method	GENSCAN
Start	20305	End	21078
GI	none	Score	42
Exons	20305..20312, 20883..21078		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o5.np	Method	AAT/NAP
Start	20764	End	21241
GI	6623973	Score	417
Exons	20764..21241		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o1.tm	Method	TBLASTX:Maize
Start	20773	End	21195
GI	none	Score	284
Exons	20773..21195, 20777..21163, 20779..21168		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o1.ts	Method	TBLASTX:Soybean
Start	20782	End	21174
GI	none	Score	161
Exons	20782..20880, 20899..21174, 20902..21165		

Seq. No.	37801	Seq. ID	OJ990909_16.0118.C23
Gene No.	77711	Strand	-
Start	9735	End	21241
Name	OJ990909_16.0118.C23.o7.tw	Method	TBLASTX:Wheat
Start	20800	End	21222
GI	none	Score	53

Exons 20800..21000, 20801..20989, 21019..21222, 21032..21163

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o1.np	Method	AAT/NAP
Start	1	End	1448
GI	6623973	Score	1132
Exons	1..1448		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o1.tm	Method	TBLASTX:Maize
Start	3	End	432
GI	none	Score	97
Exons	3..431, 136..432		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o3.tw	Method	TBLASTX:Wheat
Start	9	End	269
GI	none	Score	171
Exons	9..104, 99..269		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o1.ts	Method	TBLASTX:Soybean
Start	18	End	407
GI	none	Score	116
Exons	18..407, 60..242, 115..405		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o1.gs	Method	GENSCAN
Start	206	End	1420
GI	none	Score	.68
Exons	206..497, 639..749, 833..1420		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o2.tc	Method	TBLASTX:Cress
Start	225	End	431
GI	none	Score	61
Exons	225..431, 259..426		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o1.tw	Method	TBLASTX:Wheat
Start	273	End	699

GI	none	Score	401
Exons	273..698, 274..699		
Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o2.ts	Method	TBLASTX:Soybean
Start	899	End	1363
GI	none	Score	139
Exons	899..1036, 1034..1363, 1035..1355		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o1.tc	Method	TBLASTX:Cress
Start	908	End	1330
GI	none	Score	58
Exons	908..1036, 978..1034, 1052..1330		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o2.tw	Method	TBLASTX:Wheat
Start	932	End	1448
GI	none	Score	38
Exons	932..1036, 1053..1112, 1054..1113, 1145..1375, 1145..1447, 1221..1448		

Seq. No.	37802	Seq. ID	OJ990909_16.0118.C24
Gene No.	77712	Strand	-
Start	1	End	1448
Name	OJ990909_16.0118.C24.o2.tm	Method	TBLASTX:Maize
Start	974	End	1390
GI	none	Score	111
Exons	974..1039, 1055..1390, 1233..1376		

Seq. No.	37803	Seq. ID	OJ990909_16.0118.C25
Gene No.	77713	Strand	-
Start	1	End	2398
Name	OJ990909_16.0118.C25.o1.np	Method	AAT/NAP
Start	1	End	2398
GI	3402755	Score	416
Exons	1..1187, 2372..2398		

GI Descrip. (AL031187) putative transposable element [Arabidopsis thaliana]

Seq. No.	37803	Seq. ID	OJ990909_16.0118.C25
Gene No.	77713	Strand	-
Start	1	End	2398
Name	OJ990909_16.0118.C25.o2.tw	Method	TBLASTX:Wheat
Start	666	End	969
GI	none	Score	54
Exons	666..737, 726..836, 738..818, 821..967, 822..968, 823..969		

Seq. No.	37803	Seq. ID	OJ990909_16.0118.C25
Gene No.	77714	Strand	-
Start	2342	End	2626
Name	OJ990909_16.0118.C25.o1.tw	Method	TBLASTX:Wheat

Start	2342	End	2626
GI	none	Score	95
Exons	2342..2374, 2378..2518, 2379..2459, 2513..2626, 2532..2624		

Seq. No.	37804	Seq. ID	OJ990909_16.0118.C26
Gene No.	77715	Strand	+
Start	73	End	162
Name	OJ990909_16.0118.C26.o1.gs	Method	GENSCAN
Start	73	End	162
GI	none	Score	.44
Exons	73..162		

Seq. No.	37805	Seq. ID	OJ990909_16.0118.C27
Gene No.	77716	Strand	+
Start	109	End	709
Name	OJ990909_16.0118.C27.o1.gs	Method	GENSCAN
Start	109	End	709
GI	none	Score	.9
Exons	109..709		

Seq. No.	37806	Seq. ID	OJ990909_16.0118.C29
Gene No.	77717	Strand	-
Start	583	End	912
Name	OJ990909_16.0118.C29.o1.gs	Method	GENSCAN
Start	583	End	912
GI	none	Score	.5
Exons	583..912		

Seq. No.	37807	Seq. ID	OJ990909_16.0118.C31
Gene No.	77718	Strand	+
Start	285	End	1081
Name	OJ990909_16.0118.C31.o1.np	Method	AAT/NAP
Start	285	End	1081
GI	4512231	Score	1232
Exons	285..1081		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	37807	Seq. ID	OJ990909_16.0118.C31
Gene No.	77718	Strand	+
Start	285	End	1081
Name	OJ990909_16.0118.C31.o1.gs	Method	GENSCAN
Start	339	End	1073
GI	none	Score	.69
Exons	339..1073		

Seq. No.	37807	Seq. ID	OJ990909_16.0118.C31
Gene No.	77719	Strand	-
Start	1839	End	2054
Name	OJ990909_16.0118.C31.o2.gs	Method	GENSCAN
Start	1839	End	2054
GI	none	Score	.99
Exons	1839..2054		

Seq. No.	37808	Seq. ID	OJ990909_16.0118.C32
Gene No.	77720	Strand	+
Start	18	End	1353
Name	OJ990909_16.0118.C32.o1.gs	Method	GENSCAN



Start 18  
 GI none  
 Exons 18..120, 242..352, 1280..1353

End 1353  
 Score .66

Seq. No. 37808  
 Gene No. 77721  
 Start 450  
 Name OJ990909\_16.0118.C32.o1.gp  
 Start 450  
 GI uC-osflcyp104c12a1  
 Exons 450..588  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 3.0e-29 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'

Seq. ID OJ990909\_16.0118.C32  
 Strand -  
 End 588  
 Method AAT/GAP  
 End 588  
 Score 177

Seq. No. 37808  
 Gene No. 77722  
 Start 2233  
 Name OJ990909\_16.0118.C32.o2.gs  
 Start 2233  
 GI none  
 Exons 2233..2294, 3268..3481

Seq. ID OJ990909\_16.0118.C32  
 Strand -  
 End 3481  
 Method GENSCAN  
 End 3481  
 Score .94

Seq. No. 37809  
 Gene No. 77723  
 Start 4084  
 Name OJ990909\_16.0118.C33.o2.gs  
 Start 4084  
 GI none  
 Exons 4084..4329, 4427..5237, 6974..7139

Seq. ID OJ990909\_16.0118.C33  
 Strand -  
 End 7139  
 Method GENSCAN  
 End 7139  
 Score .44

Seq. No. 37810  
 Gene No. 77724  
 Start 220  
 Name OJ990909\_16.0118.C37.o1.gs  
 Start 220  
 GI none  
 Exons 220..317

Seq. ID OJ990909\_16.0118.C37  
 Strand +  
 End 317  
 Method GENSCAN  
 End 317  
 Score .62

Seq. No. 37811  
 Gene No. 77725  
 Start 846  
 Name OJ990909\_10.0114.C2.o1.tm  
 Start 846  
 GI none  
 Exons 846..935, 864..920, 865..948, 1041..1199, 1041..1193, 1046..1198

Seq. ID OJ990909\_10.0114.C2  
 Strand  
 End 1199  
 Method TBLASTX:Maize  
 End 1199  
 Score 78

Seq. No. 37812  
 Gene No. 77726  
 Start 235  
 Name OJ990909\_10.0114.C3.o1.gs  
 Start 235  
 GI none  
 Exons 235..283, 2365..2649, 2743..3064, 3161..3430, 3773..3866, 4159..4492, 4527..4701, 5967..6164, 6558..6606, 6935..7085, 7578..7851, 8314..8559, 8589..8650, 8724..8989, 9488..9688

Seq. ID OJ990909\_10.0114.C3  
 Strand +  
 End 13154  
 Method GENSCAN  
 End 9688  
 Score .42

Seq. No. 37812

Seq. ID OJ990909\_10.0114.C3

Gene No.	77726	Strand	+
Start	235	End	13154
Name	OJ990909_10.0114.C3.o1.gp	Method	AAT/GAP
Start	2348	End	2868
GI	76629_1.R1084	Score	746
Exons	2348..2649, 2743..2868		
GI Descrip.	'4454483/gb AAD20930  5.0e-11 (AC006234) putative kinase, 5'' partial [Arabidopsis thaliana]'		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77726	Strand	+
Start	235	End	13154
Name	OJ990909_10.0114.C3.o1.np	Method	AAT/NAP
Start	2556	End	3467
GI	1041702	Score	913
Exons	2556..2649, 2743..3064, 3161..3467		
GI Descrip.	(U30476) expansin At-EXPl [Arabidopsis thaliana]		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77726	Strand	+
Start	235	End	13154
Name	OJ990909_10.0114.C3.o2.gp	Method	AAT/GAP
Start	3408	End	4014
GI	6012874	Score	1002
Exons	3408..3932, 3993..4014		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77726	Strand	+
Start	235	End	13154
Name	OJ990909_10.0114.C3.o3.np	Method	AAT/NAP
Start	7699	End	13154
GI	6041804	Score	46
Exons	7699..7721, 8830..8952, 13137..13154		
GI Descrip.	(AC009755) putative protein kinase [Arabidopsis thaliana] gi 6513945 gb AAF14849.1 AC011664_31 (AC011664) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77726	Strand	+
Start	235	End	13154
Name	OJ990909_10.0114.C3.o2.np	Method	AAT/NAP
Start	8296	End	12797
GI	6539574	Score	101
Exons	8296..8484, 12762..12797		
GI Descrip.	(AP000836) Similar to chromaffin granule ATPase II homolog (U75321) [Oryza sativa]		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77726	Strand	+
Start	235	End	13154
Name	OJ990909_10.0114.C3.o3.gp	Method	AAT/GAP
Start	10168	End	10321
GI	uC-osflcyp084e03a1	Score	206
Exons	10168..10321		
GI Descrip.	'5441877/dbj BAA82375.1  1.0e-13 (AP000367) Similar to glycogenin glucosyltransferase (EC 2.4.1.186). (297341) [Oryza sativa]'		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o1.tm	Method	TBLASTX:Maize
Start	2594	End	3464
GI	none	Score	103
Exons	2594..2650, 2595..2651, 2741..2872, 2742..2873, 2885..3094, 2886..3095, 3152..3238, 3155..3223, 3156..3239, 3296..3463, 3297..3464		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o2.ts	Method	TBLASTX:Soybean
Start	2594	End	3470
GI	none	Score	95
Exons	2594..2650, 2595..2651, 2741..2839, 2742..2861, 2888..3058, 2889..3065, 3143..3223, 3158..3235, 3159..3290, 3297..3470, 3308..3463		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o1.tc	Method	TBLASTX:Cress
Start	2595	End	3466
GI	none	Score	94
Exons	2595..2651, 2609..2650, 2741..2896, 2742..2897, 2900..3064, 2901..3065, 3140..3238, 3159..3239, 3294..3464, 3296..3466		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o2.gs	Method	GENSCAN
Start	10169	End	23954
GI	none	Score	.75
Exons	10169..10232, 10765..10953, 11047..11246, 11394..11507, 11619..11755, 11863..11973, 12874..13126, 13225..13257, 13590..13998, 15480..16432, 17729..17839, 17935..18012, 18436..18500, 18624..18999, 19401..19601, 20156..20300, 20573..20727, 22301..22391, 22861..22927, 23888..23954		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o4.np	Method	AAT/NAP
Start	10515	End	13775
GI	6730659	Score	1256
Exons	10515..10674, 10765..10953, 11047..11246, 11394..11507, 11619..11755, 11863..11973, 12874..13126, 13225..13323, 13590..13775		

GI Descrip. (AC007945) F28C11.9 [Arabidopsis thaliana]

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o4.tc	Method	TBLASTX:Cress

Start	10524	End	11153
GI	none	Score	139
Exons	10524..10676, 10741..10953, 10788..10955, 11046..11153		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o3.tm	Method	TBLASTX:Maize
Start	10524	End	13069
GI	none	Score	36
Exons	10524..10676, 10566..10676, 10795..10956, 10803..10955, 11029..11247, 11046..11288, 11046..11153, 11380..11511, 11394..11510, 11406..11516, 11414..11512, 11616..11726, 11616..11756, 11629..11757, 11809..11901, 11844..11984, 11861..11974, 12875..13069, 12876..13067		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o4.ts	Method	TBLASTX:Soybean
Start	10524	End	11507
GI	none	Score	124
Exons	10524..10676, 10770..10955, 10771..10956, 11041..11247, 11046..11153, 11211..11249, 11394..11507, 11395..11505		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o4.gp	Method	AAT/GAP
Start	10593	End	10921
GI	2796587	Score	430
Exons	10593..10674, 10765..10921		
GI Descrip.	5441877/dbj BAA82375.1  1.0e-13 (AP000367) Similar to glycogenin glucosyltransferase (EC 2.4.1.186). (Z97341) [Oryza sativa]		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o1.tw	Method	TBLASTX:Wheat
Start	10819	End	11462
GI	none	Score	79
Exons	10819..10926, 10821..10955, 10966..11007, 11046..11153, 11394..11462		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o3.tc	Method	TBLASTX:Cress
Start	11439	End	13865
GI	none	Score	72
Exons	11439..11510, 11440..11508, 11616..11723, 11616..11756, 11629..11757, 11859..11981, 11861..11974, 12866..13129, 12876..13121, 13225..13326, 13226..13315, 13566..13667, 13671..13865		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-

Start	10169	End	23954
Name	OJ990909_10.0114.C3.o3.ts	Method	TBLASTX:Soybean
Start	11679	End	13652
GI	none	Score	57
Exons	11679..11756, 11710..11757, 11859..11903, 11861..11905, 11909..11974, 11922..11975, 12884..13129, 12885..13127, 13223..13315, 13225..13323, 13547..13630, 13566..13652, 13573..13632		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o5.tm	Method	TBLASTX:Maize
Start	13228	End	13929
GI	none	Score	99
Exons	13228..13326, 13228..13326, 13238..13330, 13566..13733, 13589..13630, 13590..13703, 13674..13742, 13674..13928, 13681..13929		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o5.gp	Method	AAT/GAP
Start	14638	End	15098
GI	3761750	Score	807
Exons	14638..15098		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o1.ts	Method	TBLASTX:Soybean
Start	15461	End	16036
GI	none	Score	397
Exons	15461..16036, 15468..16028		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o5.np	Method	AAT/NAP
Start	15479	End	19678
GI	2655031	Score	2467
Exons	15479..16432, 16933..17106, 17586..17630, 17729..17839, 17935..18012, 18436..18500, 18624..19008, 19401..19678		

GI Descrip. (AF019297) starch synthase isoform zSTSII-2 [Zea mays]

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o2.tc	Method	TBLASTX:Cress
Start	15503	End	16060
GI	none	Score	247
Exons	15503..15679, 15662..16060, 15663..16031, 15782..16036		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o2.tm	Method	TBLASTX:Maize

Start	15503	End	16349
GI	none	Score	243
Exons	15503..15694, 15666..16109, 15668..16102, 16151..16348, 16155..16349		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o5.ts	Method	TBLASTX:Soybean
Start	16358	End	18694
GI	none	Score	98
Exons	16358..16435, 16359..16433, 16922..17107, 16933..17109, 16940..17107, 16944..17114, 17574..17633, 17584..17631, 17732..17842, 17757..17843, 17935..18012, 17939..18013, 18418..18501, 18425..18502, 18622..18693, 18623..18694		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o4.tm	Method	TBLASTX:Maize
Start	16927	End	17969
GI	none	Score	235
Exons	16927..17112, 16928..17107, 17583..17630, 17584..17631, 17709..17840, 17731..17841, 17732..17842, 17933..17968, 17934..17969		

Seq. No.	37812	Seq. ID	OJ990909_10.0114.C3
Gene No.	77727	Strand	-
Start	10169	End	23954
Name	OJ990909_10.0114.C3.o6.gp	Method	AAT/GAP
Start	18701	End	19547
GI	uC-osflM202062g01b1	Score	813
Exons	18701..18999, 19401..19547		
GI Descrip.	'5441877/dbj BAA82375.1  1.0e-13 (AP000367) Similar to glycogenin glucosyltransferase (EC 2.4.1.186). (Z97341) [Oryza sativa]'		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77728	Strand	+
Start	3785	End	6467
Name	OJ990909_10.0114.C4.o2.np	Method	AAT/NAP
Start	3785	End	6108
GI	3821254	Score	1723
Exons	3785..3930, 4111..4470, 5135..5590, 5676..6108		
GI Descrip.	(AJ007789) geranylgeranyl reductase [Nicotiana tabacum]		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77728	Strand	+
Start	3785	End	6467
Name	OJ990909_10.0114.C4.o2.gs	Method	GENSCAN
Start	5112	End	6111
GI	none	Score	.92
Exons	5112..5590, 5676..6111		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77728	Strand	+
Start	3785	End	6467

Name	OJ990909_10.0114.C4.o1.gp	Method	AAT/GAP
Start	5521	End	6467
GI	9605_1.R1084	Score	1644
Exons	5521..5584, 5670..6467		
GI Descrip.	'3202030 9.0e-78 (AF069318) geranylgeranyl hydrogenase [Mesembryanthemum crystallinum]'		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77729	Strand	-
Start	1	End	1179
Name	OJ990909_10.0114.C4.o1.np	Method	AAT/NAP
Start	1	End	1179
GI	6907086	Score	1218
Exons	1..368, 426..1179		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77730	Strand	-
Start	6521	End	9513
Name	OJ990909_10.0114.C4.o1.tm	Method	TBLASTX:Maize
Start	4057	End	6137
GI	none	Score	68
Exons	4057..4110, 4057..4107, 4070..4126, 4193..4480, 4204..4479, 5124..5591, 5132..5596, 5673..6119, 5674..6102, 6090..6137		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77730	Strand	-
Start	6521	End	9513
Name	OJ990909_10.0114.C4.o1.tc	Method	TBLASTX:Cress
Start	4193	End	6104
GI	none	Score	405
Exons	4193..4471, 4204..4386, 5124..5222, 5207..5590, 5208..5591, 5674..6102, 5688..6104		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77730	Strand	-
Start	6521	End	9513
Name	OJ990909_10.0114.C4.o1.ts	Method	TBLASTX:Soybean
Start	4193	End	6110
GI	none	Score	409
Exons	4193..4471, 4204..4386, 5124..5222, 5198..5590, 5214..5591, 5486..5605, 5664..5807, 5674..5814, 5814..6110, 5815..6102		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77730	Strand	-
Start	6521	End	9513
Name	OJ990909_10.0114.C4.o3.np	Method	AAT/NAP
Start	6521	End	9513
GI	6539250	Score	246
Exons	6521..6636, 6805..7011, 7451..7844, 9483..9513		
GI Descrip.	(AC011765) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37813	Seq. ID	OJ990909_10.0114.C4
Gene No.	77730	Strand	-
Start	6521	End	9513
Name	OJ990909_10.0114.C4.o3.gs	Method	GENSCAN
Start	6826	End	8717

GI	none	Score	.92
Exons	6826..7011, 7454..7800, 7905..7987, 8192..8302, 8616..8717		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o1.gs	Method	GENSCAN
Start	543	End	3568
GI	none	Score	.92
Exons	543..632, 913..1047, 1140..1238, 1324..1398, 2117..2182, 2268..2360, 2417..2491, 2632..2742, 3061..3123, 3185..3568		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o1.ts	Method	TBLASTX:Soybean
Start	679	End	984
GI	none	Score	95
Exons	679..759, 681..767, 771..818, 776..820, 778..819, 911..982, 911..982, 913..984		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o2.tc	Method	TBLASTX:Cress
Start	679	End	994
GI	none	Score	95
Exons	679..771, 681..782, 776..820, 911..994, 913..993		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o1.np	Method	AAT/NAP
Start	684	End	4853
GI	6056208	Score	1077
Exons	684..817, 913..1047, 1140..1238, 1324..1398, 2117..2182, 2268..2336, 2632..2742, 3061..3123, 3217..3396, 4634..4853		
GI Descrip.	(AC009400) putative ATPase [Arabidopsis thaliana]		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o1.tm	Method	TBLASTX:Maize
Start	776	End	1369
GI	none	Score	60
Exons	776..820, 776..820, 777..824, 907..1047, 911..1048, 913..1047, 1137..1238, 1138..1239, 1178..1249, 1313..1369, 1316..1369		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o1.tc	Method	TBLASTX:Cress
Start	2629	End	3372
GI	none	Score	123
Exons	2629..2748, 2633..2743, 3058..3123, 3062..3127, 3217..3372, 3221..3322		



Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o2.tm	Method	TBLASTX:Maize
Start	3226	End	3372
GI	none	Score	78
Exons	3226..3372, 3227..3370		

Seq. No.	37814	Seq. ID	OJ990909_10.0114.C5
Gene No.	77731	Strand	-
Start	543	End	4976
Name	OJ990909_10.0114.C5.o2.gs	Method	GENSCAN
Start	4628	End	4976
GI	none	Score	.7
Exons	4628..4730, 4895..4976		

Seq. No.	37815	Seq. ID	OJ990909_10.0114.C6
Gene No.	77732	Strand	-
Start	483	End	748
Name	OJ990909_10.0114.C6.o1.gs	Method	GENSCAN
Start	483	End	748
GI	none	Score	.45
Exons	483..748		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77733	Strand	+
Start	6408	End	6815
Name	OJ990909_10.0114.C7.o3.gp	Method	AAT/GAP
Start	6408	End	6815
GI	none	Score	735
Exons	6408..6815		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77734	Strand	-
Start	12	End	1691
Name	OJ990909_10.0114.C7.o1.gp	Method	AAT/GAP
Start	12	End	1691
GI	none	Score	848
Exons	12..76, 682..734, 841..934, 1435..1691		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77735	Strand	-
Start	3648	End	6793
Name	OJ990909_10.0114.C7.o2.gs	Method	GENSCAN
Start	3648	End	6793
GI	none	Score	.56
Exons	3648..4214, 5026..5277, 5346..5615, 5950..5999, 6552..6793		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77735	Strand	-
Start	3648	End	6793
Name	OJ990909_10.0114.C7.o1.np	Method	AAT/NAP
Start	3666	End	5256
GI	6665552	Score	944
Exons	3666..4214, 5026..5256		
GI Descrip.	(AC013289) putative sterol desaturase [Arabidopsis thaliana]		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77735	Strand	-
Start	3648	End	6793
Name	OJ990909_10.0114.C7.o1.ts	Method	TBLASTX:Soybean
Start	3667	End	5145
GI	none	Score	141
Exons	3667..3807, 3681..4205, 3853..4176, 5021..5137, 5023..5145		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77735	Strand	-
Start	3648	End	6793
Name	OJ990909_10.0114.C7.o1.tm	Method	TBLASTX:Maize
Start	3711	End	4130
GI	none	Score	508
Exons	3711..4130, 3730..4128		

Seq. No.	37816	Seq. ID	OJ990909_10.0114.C7
Gene No.	77735	Strand	-
Start	3648	End	6793
Name	OJ990909_10.0114.C7.o2.gp	Method	AAT/GAP
Start	4117	End	5391
GI	4879612	Score	849
Exons	4117..4214, 5026..5391		

Seq. No.	37817	Seq. ID	OJ990909_10.0114.C9
Gene No.	77736	Strand	+
Start	52	End	228
Name	OJ990909_10.0114.C9.o1.gs	Method	GENSCAN
Start	52	End	228
GI	none	Score	.67
Exons	52..228		

Seq. No.	37818	Seq. ID	OJ990909_10.0114.C10
Gene No.	77737	Strand	+
Start	1	End	1754
Name	OJ990909_10.0114.C10.o1.gp	Method	AAT/GAP
Start	1	End	1584
GI	342_1.R1084	Score	2348
Exons	1..896, 932..951, 1034..1131, 1241..1584		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	37818	Seq. ID	OJ990909_10.0114.C10
Gene No.	77737	Strand	+
Start	1	End	1754
Name	OJ990909_10.0114.C10.o2.gp	Method	AAT/GAP
Start	1	End	1578
GI	342_1.R1084	Score	2336
Exons	1..896, 932..951, 1034..1131, 1241..1578		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	37818	Seq. ID	OJ990909_10.0114.C10
Gene No.	77737	Strand	+
Start	1	End	1754
Name	OJ990909_10.0114.C10.o3.gp	Method	AAT/GAP
Start	1	End	1754

GI 342\_1.R1084 Score 2653  
 Exons 1..896, 932..951, 1034..1131, 1241..1754  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 37818 Seq. ID OJ990909\_10.0114.C10  
 Gene No. 77737 Strand +  
 Start 1 End 1754  
 Name OJ990909\_10.0114.C10.o1.np Method AAT/NAP  
 Start 1 End 803  
 GI 4680203 Score 770  
 Exons 1..803  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 37818 Seq. ID OJ990909\_10.0114.C10  
 Gene No. 77737 Strand +  
 Start 1 End 1754  
 Name OJ990909\_10.0114.C10.o1.gs Method GENSCAN  
 Start 44 End 824  
 GI none Score .9  
 Exons 44..824

Seq. No. 37818 Seq. ID OJ990909\_10.0114.C10  
 Gene No. 77738 Strand +  
 Start 2438 End 2803  
 Name OJ990909\_10.0114.C10.o1.tw Method TBLASTX:Wheat  
 Start 4 End 749  
 GI none Score 75  
 Exons 4..63, 15..62, 69..350, 98..334, 345..389, 349..384, 392..487, 396..455, 434..574, 435..575, 588..668, 657..749

Seq. No. 37818 Seq. ID OJ990909\_10.0114.C10  
 Gene No. 77738 Strand +  
 Start 2438 End 2803  
 Name OJ990909\_10.0114.C10.o2.gs Method GENSCAN  
 Start 2438 End 2803  
 GI none Score .81  
 Exons 2438..2803

Seq. No. 37819 Seq. ID OJ990909\_10.0114.C11  
 Gene No. 77739 Strand +  
 Start 818 End 1061  
 Name OJ990909\_10.0114.C11.o1.gs Method GENSCAN  
 Start 818 End 1061  
 GI none Score .42  
 Exons 818..1061

Seq. No. 37820 Seq. ID OJ990909\_10.0114.C12  
 Gene No. 77740 Strand -  
 Start 334 End 471  
 Name OJ990909\_10.0114.C12.o1.gs Method GENSCAN  
 Start 334 End 471  
 GI none Score .62  
 Exons 334..471

Seq. No. 37821 Seq. ID OJ990909\_10.0114.C13  
 Gene No. 77741 Strand +

Start	980	End	2279
Name	OJ990909_10.0114.C13.o1.gp	Method	AAT/GAP
Start	980	End	1617
GI	13283_3.R1084	Score	855
Exons	980..1250, 1393..1617		
GI Descrip.	'4262186/gb AAD14503  5.0e-47 (AC005508) Highly similar to cullin 3 [Arabidopsis thaliana]'		

Seq. No.	37821	Seq. ID	OJ990909_10.0114.C13
Gene No.	77741	Strand	+
Start	980	End	2279
Name	OJ990909_10.0114.C13.o1.np	Method	AAT/NAP
Start	1074	End	2279
GI	1076748	Score	107
Exons	1074..1137, 1313..1652, 2239..2279		
GI Descrip.	major intrinsic protein - rice gi 440869 dbj BAA04257  (D17443) major intrinsic protein [Oryza sativa]		

Seq. No.	37821	Seq. ID	OJ990909_10.0114.C13
Gene No.	77741	Strand	+
Start	980	End	2279
Name	OJ990909_10.0114.C13.o1.gs	Method	GENSCAN
Start	1101	End	1615
GI	none	Score	.93
Exons	1101..1250, 1393..1482, 1484..1615		

Seq. No.	37821	Seq. ID	OJ990909_10.0114.C13
Gene No.	77741	Strand	+
Start	980	End	2279
Name	OJ990909_10.0114.C13.o1.tm	Method	TBLASTX:Maize
Start	1112	End	1618
GI	none	Score	99
Exons	1112..1264, 1113..1202, 1148..1231, 1390..1467, 1390..1467, 1502..1618, 1508..1615		

Seq. No.	37821	Seq. ID	OJ990909_10.0114.C13
Gene No.	77741	Strand	+
Start	980	End	2279
Name	OJ990909_10.0114.C13.o1.tw	Method	TBLASTX:Wheat
Start	1112	End	1588
GI	none	Score	119
Exons	1112..1249, 1113..1202, 1182..1259, 1194..1253, 1390..1470, 1390..1467, 1501..1587, 1502..1588, 1508..1588		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417
Name	OJ990909_10.0114.C14.o1.np	Method	AAT/NAP
Start	1	End	1071
GI	2832619	Score	230
Exons	1..38, 221..340, 445..506, 855..1071		
GI Descrip.	(AL021711) major intrinsic protein (MIP)-like [Arabidopsis thaliana]		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417

Name	OJ990909_10.0114.C14.o1.tm	Method	TBLASTX:Maize
Start	130	End	987
GI	none	Score	89
Exons	130..219, 130..339, 134..307, 146..343, 292..342, 324..359, 418..525, 443..526, 443..532, 838..984, 852..986, 855..986, 856..987		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417
Name	OJ990909_10.0114.C14.o1.tw	Method	TBLASTX:Wheat
Start	130	End	490
GI	none	Score	69
Exons	130..219, 130..339, 134..307, 149..343, 292..342, 416..490, 445..489		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417
Name	OJ990909_10.0114.C14.o1.ts	Method	TBLASTX:Soybean
Start	133	End	1056
GI	none	Score	123
Exons	133..339, 134..307, 447..512, 448..507, 858..1052, 859..1056		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417
Name	OJ990909_10.0114.C14.o1.gs	Method	GENSCAN
Start	145	End	1119
GI	none	Score	.64
Exons	145..340, 445..506, 855..1119		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417
Name	OJ990909_10.0114.C14.o1.gp	Method	AAT/GAP
Start	367	End	1417
GI	13283 2.R1084	Score	1336
Exons	367..506, 855..1417		
GI Descrip.	'5139541/emb CAB45652.1  3.0e-20 (AJ243308) nodulin26-like major intrinsic protein [Pisum sativum]'		

Seq. No.	37822	Seq. ID	OJ990909_10.0114.C14
Gene No.	77742	Strand	+
Start	1	End	1417
Name	OJ990909_10.0114.C14.o2.tw	Method	TBLASTX:Wheat
Start	859	End	1011
GI	none	Score	169
Exons	859..1011, 861..905, 871..993, 945..1010		

Seq. No.	37823	Seq. ID	OJ990909_10.0114.C15
Gene No.	77743	Strand	+
Start	319	End	3130
Name	OJ990909_10.0114.C15.o1.np	Method	AAT/NAP
Start	319	End	2955
GI	4539658	Score	70
Exons	319..441, 2911..2955		

GI Descrip. (AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]

Seq. No.	37823	Seq. ID	OJ990909_10.0114.C15
Gene No.	77743	Strand	+
Start	319	End	3130
Name	OJ990909_10.0114.C15.o1.gs	Method	GENSCAN
Start	2092	End	3130
GI	none	Score	.58
Exons	2092..2153, 2911..3130		

Seq. No.	37823	Seq. ID	OJ990909_10.0114.C15
Gene No.	77743	Strand	+
Start	319	End	3130
Name	OJ990909_10.0114.C15.o1.gp	Method	AAT/GAP
Start	2484	End	2870
GI	uC-osflcyp172d03a1	Score	774
Exons	2484..2870		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	37823	Seq. ID	OJ990909_10.0114.C15
Gene No.	77744	Strand	-
Start	3674	End	7560
Name	OJ990909_10.0114.C15.o2.gs	Method	GENSCAN
Start	3674	End	7560
GI	none	Score	.55
Exons	3674..3798, 3827..3866, 4196..4297, 4610..4827, 5174..5315, 5453..5570, 6547..6600, 6711..6742, 7079..7191, 7485..7560		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-
Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.np	Method	AAT/NAP
Start	1	End	1137
GI	4680203	Score	1381
Exons	1..1137		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-
Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.tc	Method	TBLASTX:Cress
Start	4	End	352
GI	none	Score	84
Exons	4..345, 8..160, 200..352		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-
Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.tm	Method	TBLASTX:Maize
Start	4	End	345
GI	none	Score	115
Exons	4..216, 4..240, 5..217, 256..345		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-

Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.gs	Method	GENSCAN
Start	17	End	1137
GI	none	Score	.87
Exons	17..1137		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-
Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.ts	Method	TBLASTX:Soybean
Start	85	End	514
GI	none	Score	121
Exons	85..381, 103..327, 376..438, 431..514, 439..513		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-
Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.tw	Method	TBLASTX:Wheat
Start	100	End	735
GI	none	Score	45
Exons	100..228, 226..345, 287..349, 370..441, 371..418, 427..735, 431..562		

Seq. No.	37824	Seq. ID	OJ990909_10.0114.C16
Gene No.	77745	Strand	-
Start	1	End	1501
Name	OJ990909_10.0114.C16.o1.gp	Method	AAT/GAP
Start	191	End	1501
GI	2310235	Score	309
Exons	191..225, 998..1137, 1464..1501		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77746	Strand	+
Start	5532	End	10722
Name	OJ990909_10.0114.C17.o2.np	Method	AAT/NAP
Start	5532	End	10722
GI	6069646	Score	703
Exons	5532..5552, 9033..9828, 10111..10722		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77747	Strand	-
Start	1375	End	1528
Name	OJ990909_10.0114.C17.o1.gp	Method	AAT/GAP
Start	1375	End	1528
GI	61605_3.R1084	Score	248
Exons	1375..1528		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
----------	-------	---------	----------------------

Gene No.	77748	Strand	-
Start	1538	End	7196
Name	OJ990909_10.0114.C17.o1.np	Method	AAT/NAP
Start	1538	End	7196
GI	6063554	Score	318
Exons	1538..1712, 2352..2382, 3036..3267, 5038..5142, 7130..7196		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77748	Strand	-
Start	1538	End	7196
Name	OJ990909_10.0114.C17.o3.gp	Method	AAT/GAP
Start	2149	End	2885
GI	101153_1.R1084	Score	381
Exons	2149..2379, 2840..2885		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77749	Strand	-
Start	7957	End	8421
Name	OJ990909_10.0114.C17.o5.tm	Method	TBLASTX:Maize
Start	7957	End	8202
GI	none	Score	134
Exons	7957..8094, 8098..8202		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77749	Strand	-
Start	7957	End	8421
Name	OJ990909_10.0114.C17.o3.tw	Method	TBLASTX:Wheat
Start	8041	End	8421
GI	none	Score	178
Exons	8041..8421		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77750	Strand	-
Start	8413	End	8843
Name	OJ990909_10.0114.C17.o3.tm	Method	TBLASTX:Maize
Start	8413	End	8843
GI	none	Score	276
Exons	8413..8733, 8455..8583, 8571..8756, 8742..8843		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77751	Strand	-
Start	8922	End	9428
Name	OJ990909_10.0114.C17.o2.tw	Method	TBLASTX:Wheat
Start	8922	End	9257
GI	none	Score	87
Exons	8922..9062, 9051..9257		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77751	Strand	-
Start	8922	End	9428
Name	OJ990909_10.0114.C17.o1.tm	Method	TBLASTX:Maize
Start	9003	End	9428



GI	none	Score	470
Exons	9003..9428, 9014..9427		
Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77752	Strand	
Start	9432	End	10277
Name	OJ990909_10.0114.C17.o2.tm	Method	TBLASTX:Maize
Start	9432	End	10045
GI	none	Score	404
Exons	9432..10043, 9432..9512, 9590..9694, 9770..10045		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77752	Strand	
Start	9432	End	10277
Name	OJ990909_10.0114.C17.o1.ts	Method	TBLASTX:Soybean
Start	9663	End	10202
GI	none	Score	179
Exons	9663..10013, 10074..10202		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77752	Strand	
Start	9432	End	10277
Name	OJ990909_10.0114.C17.o1.tw	Method	TBLASTX:Wheat
Start	9684	End	10124
GI	none	Score	252
Exons	9684..9986, 9686..9976, 9966..10124, 10031..10120		

Seq. No.	37825	Seq. ID	OJ990909_10.0114.C17
Gene No.	77752	Strand	
Start	9432	End	10277
Name	OJ990909_10.0114.C17.o4.tm	Method	TBLASTX:Maize
Start	10062	End	10277
GI	none	Score	223
Exons	10062..10277, 10077..10241, 10079..10276		

Seq. No.	37826	Seq. ID	OJ990909_10.0114.C18
Gene No.	77753	Strand	+
Start	1	End	4909
Name	OJ990909_10.0114.C18.o1.np	Method	AAT/NAP
Start	1	End	1490
GI	4680186	Score	109
Exons	1..163, 1458..1490		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37826	Seq. ID	OJ990909_10.0114.C18
Gene No.	77753	Strand	+
Start	1	End	4909
Name	OJ990909_10.0114.C18.o1.gs	Method	GENSCAN
Start	1200	End	1515
GI	none	Score	.5
Exons	1200..1318, 1458..1515		

Seq. No.	37826	Seq. ID	OJ990909_10.0114.C18
Gene No.	77753	Strand	+
Start	1	End	4909
Name	OJ990909_10.0114.C18.o2.np	Method	AAT/NAP
Start	1300	End	4909

GI 6069653 Score 1040  
 Exons 1300..1367, 1892..3490, 3517..3937, 4830..4909  
 GI Descrip. (AP000616) hypothetical protein [Oryza sativa]

Seq. No. 37826 Seq. ID OJ990909\_10.0114.C18  
 Gene No. 77753 Strand +  
 Start 1 End 4909  
 Name OJ990909\_10.0114.C18.o2.gs Method GENSCAN  
 Start 2229 End 3488  
 GI none Score .72  
 Exons 2229..2721, 2821..3147, 3214..3488

Seq. No. 37826 Seq. ID OJ990909\_10.0114.C18  
 Gene No. 77753 Strand +  
 Start 1 End 4909  
 Name OJ990909\_10.0114.C18.o3.np Method AAT/NAP  
 Start 4404 End 4888  
 GI 6069646 Score 218  
 Exons 4404..4888  
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315)  
 [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to  
 Arabidopsis thaliana chromosome II BAC F9013 genomic sequence,  
 putative non-LTR retroelement reverse transcriptase. (AC006248)  
 [Oryza sativa]

Seq. No. 37826 Seq. ID OJ990909\_10.0114.C18  
 Gene No. 77754 Strand -  
 Start 5048 End 5853  
 Name OJ990909\_10.0114.C18.o1.tm Method TBLASTX:Maize  
 Start 4417 End 4681  
 GI none Score 77  
 Exons 4417..4599, 4417..4599, 4418..4681, 4424..4603

Seq. No. 37826 Seq. ID OJ990909\_10.0114.C18  
 Gene No. 77754 Strand -  
 Start 5048 End 5853  
 Name OJ990909\_10.0114.C18.o1.tw Method TBLASTX:Wheat  
 Start 4469 End 4870  
 GI none Score 119  
 Exons 4469..4618, 4697..4870

Seq. No. 37826 Seq. ID OJ990909\_10.0114.C18  
 Gene No. 77754 Strand -  
 Start 5048 End 5853  
 Name OJ990909\_10.0114.C18.o3.gs Method GENSCAN  
 Start 5048 End 5853  
 GI none Score .67  
 Exons 5048..5187, 5793..5853

Seq. No. 37827 Seq. ID OJ990909\_10.0114.C19  
 Gene No. 77755 Strand +  
 Start 93 End 563  
 Name OJ990909\_10.0114.C19.o1.gs Method GENSCAN  
 Start 93 End 563  
 GI none Score .87  
 Exons 93..267, 418..563

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77756	Strand	+
Start	1235	End	1877
Name	OJ990909_10.0114.C19.o2.gs	Method	GENSCAN
Start	1235	End	1877
GI	none	Score	.66
Exons	1235..1250, 1500..1767, 1772..1877		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77757	Strand	+
Start	3097	End	4686
Name	OJ990909_10.0114.C19.o3.gs	Method	GENSCAN
Start	3097	End	4686
GI	none	Score	.49
Exons	3097..3142, 3213..3281, 3767..3973, 4538..4686		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77758	Strand	+
Start	5666	End	10503
Name	OJ990909_10.0114.C19.o4.gs	Method	GENSCAN
Start	5666	End	10503
GI	none	Score	.88
Exons	5666..5744, 7049..7112, 7759..7962, 8464..9059, 9143..10503		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77758	Strand	+
Start	5666	End	10503
Name	OJ990909_10.0114.C19.o1.np	Method	AAT/NAP
Start	7802	End	10500
GI	4262186	Score	2998
Exons	7802..7962, 8464..10500		
GI Descrip.	(AC005508) Highly similar to cullin 3 [Arabidopsis thaliana]		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77759	Strand	+
Start	11222	End	11984
Name	OJ990909_10.0114.C19.o5.gs	Method	GENSCAN
Start	11222	End	11984
GI	none	Score	.75
Exons	11222..11296, 11391..11984		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o3.tm	Method	TBLASTX:Maize
Start	7798	End	8551
GI	none	Score	207
Exons	7798..7962, 7799..7963, 7845..7964, 8456..8551		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o5.tc	Method	TBLASTX:Cress
Start	7813	End	8575
GI	none	Score	215
Exons	7813..7962, 7814..7963, 8431..8568, 8456..8575, 8461..8571		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o5.ts	Method	TBLASTX:Soybean
Start	7813	End	7964
GI	none	Score	225
Exons	7813..7962, 7814..7963, 7838..7963, 7839..7964		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o3.ts	Method	TBLASTX:Soybean
Start	8458	End	8851
GI	none	Score	506
Exons	8458..8745, 8462..8851, 8471..8851		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o2.tm	Method	TBLASTX:Maize
Start	8561	End	9094
GI	none	Score	650
Exons	8561..9094, 8561..9091, 8839..9093		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o2.tc	Method	TBLASTX:Cress
Start	8606	End	9058
GI	none	Score	568
Exons	8606..9058, 8608..8730, 8609..9058		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o6.ts	Method	TBLASTX:Soybean
Start	8852	End	8998
GI	none	Score	196
Exons	8852..8998, 8854..8967, 8855..8992		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o1.tm	Method	TBLASTX:Maize
Start	9114	End	10550
GI	none	Score	428
Exons	9114..9740, 9114..9740, 9115..9759, 9524..9754, 9733..10506, 9748..10233, 9762..10550, 9780..10499, 10273..10506		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o4.ts	Method	TBLASTX:Soybean
Start	9138	End	9327
GI	none	Score	114
Exons	9138..9323, 9138..9326, 9139..9327		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o4.tc	Method	TBLASTX:Cress
Start	9219	End	9473
GI	none	Score	371
Exons	9219..9473, 9220..9471		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o1.ts	Method	TBLASTX:Soybean
Start	9346	End	10144
GI	none	Score	205
Exons	9346..9480, 9348..9479, 9471..9737, 9475..9738, 9551..9763, 9754..10137, 9776..10144, 9780..10130		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o2.tw	Method	TBLASTX:Wheat
Start	9667	End	10116
GI	none	Score	68
Exons	9667..9789, 9721..9954, 9973..10116		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o1.tc	Method	TBLASTX:Cress
Start	9692	End	10153
GI	none	Score	52
Exons	9692..9739, 9693..9740, 9694..9741, 9754..10143, 9773..10153, 9792..10127		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o1.gp	Method	AAT/GAP
Start	10070	End	10562
GI	2799005	Score	820
Exons	10070..10562		
GI Descrip.	4262186/gb AAD14503  5.0e-47 (AC005508) Highly similar to cullin-3 [Arabidopsis thaliana]		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o2.ts	Method	TBLASTX:Soybean
Start	10146	End	10509
GI	none	Score	138
Exons	10146..10502, 10147..10509, 10218..10508		

Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o3.tc	Method	TBLASTX:Cress
Start	10225	End	10539

GI	none	Score	402
Exons	10225..10503, 10227..10499, 10270..10539		
Seq. No.	37827	Seq. ID	OJ990909_10.0114.C19
Gene No.	77760	Strand	-
Start	10070	End	10562
Name	OJ990909_10.0114.C19.o1.tw	Method	TBLASTX:Wheat
Start	10248	End	10515
GI	none	Score	212
Exons	10248..10499, 10255..10515		

Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097
Name	OJ990909_10.0114.C20.o1.gp	Method	AAT/GAP
Start	1	End	489
GI	LIB3434-030-P1-K1-E6	Score	512
Exons	1..30, 240..489		
GI Descrip.	'3461817 4.0e-35 (AC004138) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097
Name	OJ990909_10.0114.C20.o1.np	Method	AAT/NAP
Start	1	End	1097
GI	3461817	Score	568
Exons	1..30, 240..418, 503..761, 1058..1097		
GI Descrip.	(AC004138) unknown protein [Arabidopsis thaliana]		

Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097
Name	OJ990909_10.0114.C20.o1.tm	Method	TBLASTX:Maize
Start	238	End	762
GI	none	Score	165
Exons	238..417, 240..419, 240..416, 501..761, 505..762		

Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097
Name	OJ990909_10.0114.C20.o1.ts	Method	TBLASTX:Soybean
Start	238	End	380
GI	none	Score	143
Exons	238..378, 239..379, 240..380		

Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097
Name	OJ990909_10.0114.C20.o1.tw	Method	TBLASTX:Wheat
Start	303	End	764
GI	none	Score	86
Exons	303..422, 307..420, 534..764, 547..762		

Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097

Name	OJ990909_10.0114.C20.o1.tc	Method	TBLASTX:Cress
Start	312	End	761
GI	none	Score	90
Exons	312..422, 534..761, 550..744		
Seq. No.	37828	Seq. ID	OJ990909_10.0114.C20
Gene No.	77761	Strand	-
Start	1	End	1097
Name	OJ990909_10.0114.C20.o1.gs	Method	GENSCAN
Start	477	End	759
GI	none	Score	.51
Exons	477..759		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77762	Strand	+
Start	26	End	5436
Name	OJ990909_10.0114.C22.o1.np	Method	AAT/NAP
Start	26	End	4573
GI	4262176	Score	756
Exons	26..212, 938..1242, 1561..1694, 4325..4573		
GI Descrip.	(AC005508) 18857 [Arabidopsis thaliana]		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77762	Strand	+
Start	26	End	5436
Name	OJ990909_10.0114.C22.o1.gs	Method	GENSCAN
Start	35	End	2229
GI	none	Score	.84
Exons	35..212, 938..1242, 1687..2229		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77762	Strand	+
Start	26	End	5436
Name	OJ990909_10.0114.C22.o2.np	Method	AAT/NAP
Start	2339	End	5433
GI	6850880	Score	721
Exons	2339..2549, 3865..4013, 4206..5060, 5158..5433		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77762	Strand	+
Start	26	End	5436
Name	OJ990909_10.0114.C22.o2.gs	Method	GENSCAN
Start	3858	End	5436
GI	none	Score	.96
Exons	3858..5060, 5158..5436		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77763	Strand	+
Start	9082	End	11971
Name	OJ990909_10.0114.C22.o4.gs	Method	GENSCAN
Start	9082	End	10102
GI	none	Score	.89
Exons	9082..9171, 9218..9368, 9882..10102		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77763	Strand	+

Start	9082	End	11971
Name	OJ990909_10.0114.C22.o3.np	Method	AAT/NAP
Start	9206	End	11971
GI	2702273	Score	184
Exons	9206..9253, 10770..11020, 11940..11971		
GI Descrip.	(AC003033) unknown protein [Arabidopsis thaliana]		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77763	Strand	+
Start	9082	End	11971
Name	OJ990909_10.0114.C22.o2.gp	Method	AAT/GAP
Start	9742	End	10292
GI	none	Score	160
Exons	9742..9846, 10272..10292		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77763	Strand	+
Start	9082	End	11971
Name	OJ990909_10.0114.C22.o5.gs	Method	GENSCAN
Start	10404	End	11211
GI	none	Score	.95
Exons	10404..11003, 11063..11075, 11183..11211		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77764	Strand	-
Start	2765	End	3081
Name	OJ990909_10.0114.C22.o2.ts	Method	TBLASTX:Soybean
Start	8	End	1179
GI	none	Score	166
Exons	8..217, 76..219, 936..1070, 951..1070, 952..1074, 1080..1178, 1081..1179		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77764	Strand	-
Start	2765	End	3081
Name	OJ990909_10.0114.C22.o2.tc	Method	TBLASTX:Cress
Start	76	End	1179
GI	none	Score	177
Exons	76..216, 77..226, 943..1179, 943..1170		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77764	Strand	-
Start	2765	End	3081
Name	OJ990909_10.0114.C22.o2.tm	Method	TBLASTX:Maize
Start	164	End	1182
GI	none	Score	67
Exons	164..214, 940..1068, 942..1058, 958..1068, 1075..1182, 1099..1170		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77764	Strand	-
Start	2765	End	3081
Name	OJ990909_10.0114.C22.o2.tw	Method	TBLASTX:Wheat
Start	951	End	1179
GI	none	Score	155
Exons	951..1064, 952..1068, 1087..1179, 1096..1170		



Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77764	Strand	-
Start	2765	End	3081
Name	OJ990909_10.0114.C22.o1.gp	Method	AAT/GAP
Start	2765	End	3081
GI	none	Score	630
Exons	2765..3081		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o1.ts	Method	TBLASTX:Soybean
Start	4130	End	5436
GI	none	Score	126
Exons	4130..4303, 4176..4301, 4470..4499, 4566..4616, 4637..4711, 4638..4727, 4740..4781, 4743..5030, 4829..5032, 4839..5045, 5158..5199, 5194..5436, 5196..5429		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o3.tm	Method	TBLASTX:Maize
Start	4269	End	4931
GI	none	Score	81
Exons	4269..4409, 4467..4499, 4475..4609, 4566..4622, 4620..4727, 4731..4931, 4740..4781, 4839..4931		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o3.tc	Method	TBLASTX:Cress
Start	4586	End	5045
GI	none	Score	123
Exons	4586..4711, 4587..4718, 4740..4781, 4813..4845, 4874..5044, 4902..5045		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o3.tw	Method	TBLASTX:Wheat
Start	4734	End	5057
GI	none	Score	55
Exons	4734..4781, 4734..4835, 4823..5014, 4842..5057		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o1.tm	Method	TBLASTX:Maize
Start	5155	End	5427
GI	none	Score	42
Exons	5155..5199, 5194..5427, 5194..5394, 5196..5426		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o1.tc	Method	TBLASTX:Cress
Start	5193	End	5436

GI	none	Score	118
Exons	5193..5435, 5193..5429, 5194..5436, 5197..5433		
Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77765	Strand	
Start	4130	End	5438
Name	OJ990909_10.0114.C22.o1.tw	Method	TBLASTX:Wheat
Start	5203	End	5438
GI	none	Score	301
Exons	5203..5427, 5208..5426, 5322..5438		

Seq. No.	37829	Seq. ID	OJ990909_10.0114.C22
Gene No.	77766	Strand	
Start	10752	End	11008
Name	OJ990909_10.0114.C22.o4.tm	Method	TBLASTX:Maize
Start	10752	End	11008
GI	none	Score	230
Exons	10752..10886, 10776..11006, 10781..11008		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77767	Strand	+
Start	1031	End	5630
Name	OJ990729_07.0110.C1.o1.gp	Method	AAT/GAP
Start	1031	End	1465
GI	none	Score	776
Exons	1031..1465		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77767	Strand	+
Start	1031	End	5630
Name	OJ990729_07.0110.C1.o1.gs	Method	GENSCAN
Start	1337	End	5630
GI	none	Score	.81
Exons	1337..1520, 2629..3264, 3728..3982, 4521..4594, 4693..4772, 4880..5015, 5217..5366, 5463..5630		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77767	Strand	+
Start	1031	End	5630
Name	OJ990729_07.0110.C1.o1.np	Method	AAT/NAP
Start	1552	End	5627
GI	6729024	Score	704
Exons	1552..1616, 2418..2501, 2660..2981, 3177..3264, 3728..3985, 4440..4608, 4880..5015, 5217..5366, 5463..5627		

GI Descrip. (AC009177) putative serine/threonine protein kinase [Arabidopsis thaliana]

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77768	Strand	-
Start	2683	End	2865
Name	OJ990729_07.0110.C1.o2.gp	Method	AAT/GAP
Start	2683	End	2865
GI	none	Score	248
Exons	2683..2865		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77769	Strand	-

Start 4033  
 Name OJ990729\_07.0110.C1.o3.gp  
 Start 4033  
 GI 1037022  
 Exons 4033..4323

End 4323  
 Method AAT/GAP  
 End 4323  
 Score 552

Seq. No. 37830  
 Gene No. 77770  
 Start 5453  
 Name OJ990729\_07.0110.C1.o4.gp  
 Start 5453  
 GI none  
 Exons 5453..5848

Seq. ID OJ990729\_07.0110.C1  
 Strand -  
 End 5848  
 Method AAT/GAP  
 End 5848  
 Score 503

Seq. No. 37830  
 Gene No. 77771  
 Start 7966  
 Name OJ990729\_07.0110.C1.o3.ts  
 Start 3201  
 GI none  
 Exons 3201..3260, 3726..3800, 3727..3816, 3730..3804, 3829..3984, 3870..3983

Seq. ID OJ990729\_07.0110.C1  
 Strand -  
 End 17235  
 Method TBLASTX:Soybean  
 End 3984  
 Score 74

Seq. No. 37830  
 Gene No. 77771  
 Start 7966  
 Name OJ990729\_07.0110.C1.o1.tc  
 Start 3871  
 GI none  
 Exons 3871..3984, 3876..3983, 4417..4584, 4439..4597, 4687..4773, 4690..4770, 4692..4796, 4880..4996, 4881..5012

Seq. ID OJ990729\_07.0110.C1  
 Strand -  
 End 17235  
 Method TBLASTX:Cress  
 End 5012  
 Score 141

Seq. No. 37830  
 Gene No. 77771  
 Start 7966  
 Name OJ990729\_07.0110.C1.o2.tm  
 Start 4439  
 GI none  
 Exons 4439..4597, 4477..4581, 4680..4775, 4690..4773, 4884..4988, 4889..4987

Seq. ID OJ990729\_07.0110.C1  
 Strand -  
 End 17235  
 Method TBLASTX:Maize  
 End 4988  
 Score 191

Seq. No. 37830  
 Gene No. 77771  
 Start 7966  
 Name OJ990729\_07.0110.C1.o1.tw  
 Start 4454  
 GI none  
 Exons 4454..4516, 4520..4597, 4687..4773, 4881..5003, 4889..4987

Seq. ID OJ990729\_07.0110.C1  
 Strand -  
 End 17235  
 Method TBLASTX:wheat  
 End 5003  
 Score 64

Seq. No. 37830  
 Gene No. 77771  
 Start 7966  
 Name OJ990729\_07.0110.C1.o2.ts  
 Start 4454  
 GI none  
 Exons 4454..4546, 4547..4597, 4680..4772, 4688..4768, 4689..4769, 4690..4773, 4876..4938, 4881..5015, 4889..5020, 5217..5297

Seq. ID OJ990729\_07.0110.C1  
 Strand -  
 End 17235  
 Method TBLASTX:Soybean  
 End 5297  
 Score 114

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o3.tm	Method	TBLASTX:Maize
Start	5267	End	5707
GI	none	Score	87
Exons	5267..5368, 5280..5336, 5280..5393, 5281..5373, 5281..5403, 5291..5398, 5430..5507, 5458..5496, 5472..5507, 5511..5630, 5511..5648, 5531..5647, 5676..5702, 5681..5707		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o6.gp	Method	AAT/GAP
Start	7671	End	8966
GI	17990_1.R1084	Score	948
Exons	7671..8133, 8409..8533, 8684..8755, 8861..8966		
GI Descrip.	'4006893/emb CAB16823.1  1.0e-100 (Z99708) aminopeptidase-like protein [Arabidopsis thaliana]'		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o5.gp	Method	AAT/GAP
Start	7705	End	7993
GI	none	Score	570
Exons	7705..7993		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o7.gp	Method	AAT/GAP
Start	7821	End	8979
GI	17990_1.R1084	Score	860
Exons	7821..8133, 8409..8533, 8684..8755, 8861..8979		
GI Descrip.	'4006893/emb CAB16823.1  1.0e-100 (Z99708) aminopeptidase-like protein [Arabidopsis thaliana]'		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o1.tm	Method	TBLASTX:Maize
Start	7957	End	14056
GI	none	Score	192

Exons	7957..8130, 7973..8131, 8400..8561, 8408..8530, 8409..8531, 8410..8538, 8685..8783, 8686..8757, 8858..8968, 8859..8969, 8859..8969, 8860..8970, 9480..9566, 9501..9557, 9511..9582, 10182..10268, 10183..10269, 10349..10486, 10349..10486, 11496..11576, 11520..11576, 12802..12873, 12806..12871, 13001..13105, 13013..13102, 13017..13106, 13420..13545, 13425..13535, 13571..13675, 13572..13676, 13575..13679, 13576..13680, 13576..13680, 13777..13911, 13777..13887, 13784..13924, 13784..13909, 14024..14056		
-------	--	--	--

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-

Start	7966	End	17235
Name	OJ990729_07.0110.C1.o2.gs	Method	GENSCAN
Start	7966	End	17235
GI	none	Score	.84
Exons	7966..8133, 8409..8533, 8684..8755, 8861..8965, 9502..9556, 10185..10265, 10349..10483, 11520..11583, 12803..12870, 13013..13099, 13420..13731, 13787..13909, 14032..14316, 14967..15106, 15715..15778, 15948..16159, 16885..16998, 17122..17235		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o2.np	Method	AAT/NAP
Start	7969	End	16007
GI	4006893	Score	1834
Exons	7969..8133, 8409..8533, 8684..8755, 8861..8965, 9502..9556, 10185..10265, 10349..10483, 11520..11583, 12803..12870, 13013..13099, 13420..13674, 13787..13909, 14032..14316, 14967..15106, 15715..15778, 15948..16007		
GI Descrip.	(Z99708) aminopeptidase-like protein [Arabidopsis thaliana]		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o1.ts	Method	TBLASTX:Soybean
Start	7975	End	14199
GI	none	Score	109
Exons	7975..8130, 7976..8131, 8400..8561, 8405..8533, 8409..8534, 8413..8538, 8684..8752, 8685..8783, 8686..8757, 8857..8955, 8859..8966, 8860..8967, 9500..9556, 10182..10268, 10183..10266, 10349..10486, 10349..10486, 10356..10496, 11520..11585, 11521..11577, 12802..12873, 12805..12894, 13010..13105, 13017..13100, 13024..13128, 13420..13539, 13585..13680, 13784..13927, 13787..13918, 14021..14197, 14029..14199		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o8.gp	Method	AAT/GAP
Start	8462	End	9556
GI	17990 1.R1084	Score	449
Exons	8462..8533, 8684..8755, 8861..8965, 9502..9556		
GI Descrip.	4006893/emb CAB16823.1  1:0e-100 (Z99708) aminopeptidase-like protein [Arabidopsis thaliana]		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o2.tc	Method	TBLASTX:Cress
Start	10188	End	13057
GI	none	Score	45
Exons	10188..10238, 10242..10268, 10243..10269, 10349..10486, 10353..10484, 11520..11576, 12811..12873, 13010..13057		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-

Start	7966	End	17235
Name	OJ990729_07.0110.C1.o4.tm	Method	TBLASTX:Maize
Start	14110	End	16058
GI	none	Score	151
Exons	14110..14238, 14111..14227, 14227..14271, 14229..14273, 14270..14314, 14272..14319, 14272..14310, 14955..15068, 14956..15087, 14966..15067, 14967..15068, 14974..15069, 15072..15107, 15073..15159, 15704..15811, 15704..15781, 15948..16058, 15949..15999		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o3.tc	Method	TBLASTX:Cress
Start	14167	End	16031
GI	none	Score	67
Exons	14167..14307, 14228..14314, 14967..15107, 14968..15108, 15704..15781, 15714..15779, 15948..16031		

Seq. No.	37830	Seq. ID	OJ990729_07.0110.C1
Gene No.	77771	Strand	-
Start	7966	End	17235
Name	OJ990729_07.0110.C1.o4.ts	Method	TBLASTX:Soybean
Start	14203	End	16019
GI	none	Score	65
Exons	14203..14304, 14216..14305, 14967..15107, 14968..15108, 15704..15778, 15714..15779, 15951..16019		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77772	Strand	+
Start	3320	End	3940
Name	OJ990729_07.0110.C2.o2.gs	Method	GENSCAN
Start	3320	End	3940
GI	none	Score	.9
Exons	3320..3409, 3685..3789, 3830..3940		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77773	Strand	+
Start	4728	End	11966
Name	OJ990729_07.0110.C2.o3.gp	Method	AAT/GAP
Start	4309	End	6667
GI	43983.1.R1084	Score	1557
Exons	4309..5046, 6599..6667		
GI Descrip.	4585576/gb AAD25541.1 AF134051.1 2.0e-12 (AF134051) fructose-1,6-Bisphosphatase precursor [Solanum tuberosum]		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77773	Strand	+
Start	4728	End	11966
Name	OJ990729_07.0110.C2.o3.gs	Method	GENSCAN
Start	4728	End	11450
GI	none	Score	.57
Exons	4728..5046, 6599..7025, 8118..8335, 9240..9328, 9505..9574, 9769..9852, 9956..10032, 10143..10207, 10345..10387, 10511..10574, 10748..10876, 11201..11247, 11346..11450		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
----------	-------	---------	---------------------

Gene No. 77773 Strand +  
 Start 4728 End 11966  
 Name OJ990729\_07.0110.C2.o2.np Method AAT/NAP  
 Start 4749 End 11447  
 GI 2827665 Score 1891  
 Exons 4749..5048, 6601..7088, 8118..8335, 9240..9328, 9505..9574,  
 9769..9852, 9956..10032, 10143..10224, 10345..10427,  
 10511..10574, 10745..10876, 11144..11247, 11346..11447  
 GI Descrip. (AL021637) vacuolar sorting receptor-like protein [Arabidopsis  
 thaliana]

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
 Gene No. 77773 Strand +  
 Start 4728 End 11966  
 Name OJ990729\_07.0110.C2.o4.gp Method AAT/GAP  
 Start 6812 End 9273  
 GI 27513\_1.R1084 Score 995  
 Exons 6812..7088, 8118..8335, 9240..9273  
 GI Descrip. '4982499/gb|AAD36959.1|AC000107\_5 9.0e-83 (AC000107) F17F8.5  
 [Arabidopsis thaliana]'

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
 Gene No. 77773 Strand +  
 Start 4728 End 11966  
 Name OJ990729\_07.0110.C2.o5.gp Method AAT/GAP  
 Start 10729 End 11247  
 GI LIB3431-048-P1-K1-B1 Score 292  
 Exons 10729..10876, 11144..11247  
 GI Descrip. '3252813 9.0e-18 (AC004705) vacuolar sorting receptor-like  
 protein [Arabidopsis thaliana] >gi\_3810586 (AC005398) vacuolar  
 sorting receptor-like protein [Arabidopsis thaliana]'

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
 Gene No. 77773 Strand +  
 Start 4728 End 11966  
 Name OJ990729\_07.0110.C2.o6.gp Method AAT/GAP  
 Start 11184 End 11966  
 GI 2775\_1.R1084 Score 975  
 Exons 11184..11247, 11346..11451, 11556..11966  
 GI Descrip. '4585576/gb|AAD25541.1|AF134051\_1 2.0e-12 (AF134051)  
 fructose-1,6-bisphosphatase precursor [Solanum tuberosum]'

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
 Gene No. 77774 Strand +  
 Start 13482 End 13665  
 Name OJ990729\_07.0110.C2.o7.gp Method AAT/GAP  
 Start 13482 End 13665  
 GI LIB3433-007-Q6-K1-C2 Score 321  
 Exons 13482..13665  
 GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450  
 [Arabidopsis thaliana]'

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
 Gene No. 77775 Strand -  
 Start 133 End 2818  
 Name OJ990729\_07.0110.C2.o1.gs Method GENSCAN  
 Start 133 End 1895

GI	none	Score	.66
Exons	133..533, 849..937, 977..1245, 1662..1895		
Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77775	Strand	-
Start	133	End	2818
Name	OJ990729_07.0110.C2.o1.np	Method	AAT/NAP
Start	169	End	2818
GI	585118	Score	532
Exons	169..533, 849..1245, 1662..1856, 2777..2818		
GI Descrip.	FRUCTOSE-1,6-BISPHOSPHATASE, CHLOROPLAST PRECURSOR (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE) gi 289367 (L15303) fructose-1,6-bisphosphate [Brassica napus]		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77775	Strand	-
Start	133	End	2818
Name	OJ990729_07.0110.C2.o1.gp	Method	AAT/GAP
Start	180	End	911
GI	LIB3432-014-P1-K1-B7	Score	787
Exons	180..533, 849..911		
GI Descrip.	'67243/pir PASPC 7.0e-38 fructose-bisphosphatase (EC 3.1.3.11), chloroplast - spinach >gi_999621_pdb_1SPI_A Spinacia oleracea >gi_999622_pdb_1SPI_B Spinacia oleracea >gi_999623_pdb_1SPI_C Spinacia oleracea >gi_999624_pdb_1SPI_D Spinacia oleracea'		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77775	Strand	-
Start	133	End	2818
Name	OJ990729_07.0110.C2.o2.gp	Method	AAT/GAP
Start	996	End	1698
GI	4968854	Score	497
Exons	996..1245, 1662..1698		
GI Descrip.	4585576/gb AAD25541.1 AF134051_1 2.0e-12 (AF134051) fructose-1,6-bisphosphatase precursor [Solanum tuberosum]		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o1.tm	Method	TBLASTX:Maize
Start	89	End	441
GI	none	Score	69
Exons	89..169, 124..441, 124..441		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o1.tc	Method	TBLASTX:Cress
Start	126	End	541
GI	none	Score	140
Exons	126..398, 129..518, 133..534, 136..534, 227..541		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o2.ts	Method	TBLASTX:Soybean
Start	187	End	1245



GI none Score 58  
Exons 187..264, 271..342, 272..319, 343..435, 346..447, 847..1032,  
1063..1146, 1067..1141, 1162..1245

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
Gene No. 77776 Strand -  
Start 12624 End 14841  
Name OJ990729\_07.0110.C2.o3.tc Method TBLASTX:Cress  
Start 919 End 1787  
GI none Score 73  
Exons 919..1062, 943..1062, 1070..1144, 1102..1224, 1103..1213,  
1181..1246, 1195..1245, 1662..1736, 1731..1787

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
Gene No. 77776 Strand -  
Start 12624 End 14841  
Name OJ990729\_07.0110.C2.o3.tm Method TBLASTX:Maize  
Start 1015 End 1799  
GI none Score 208  
Exons 1015..1245, 1070..1246, 1073..1249, 1092..1250, 1662..1736,  
1731..1799

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
Gene No. 77776 Strand -  
Start 12624 End 14841  
Name OJ990729\_07.0110.C2.o4.tm Method TBLASTX:Maize  
Start 4827 End 5015  
GI none Score 191  
Exons 4827..5015

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
Gene No. 77776 Strand -  
Start 12624 End 14841  
Name OJ990729\_07.0110.C2.o2.tc Method TBLASTX:Cress  
Start 4839 End 11405  
GI none Score 167  
Exons 4839..4988, 6598..6708, 6703..6789, 6829..7089, 6861..7088,  
8115..8336, 8116..8337, 9232..9330, 9263..9331, 9502..9582,  
9761..9850, 9768..9848, 9939..10034, 9940..10032, 10140..10223,  
10142..10207, 10349..10432, 10350..10424, 10528..10566,  
10529..10567, 10746..10877, 10746..10898, 10747..10890,  
11149..11247, 11340..11405, 11348..11404

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2  
Gene No. 77776 Strand -  
Start 12624 End 14841  
Name OJ990729\_07.0110.C2.o1.ts Method TBLASTX:Soybean  
Start 4890 End 11405  
GI none Score 69  
Exons 4890..4991, 6601..6708, 6703..6786, 6829..7089, 6861..7088,  
8115..8336, 8116..8337, 9232..9330, 9266..9331, 9502..9582,  
9507..9584, 9761..9850, 9768..9851, 9942..10034, 9955..10032,  
10140..10220, 10142..10207, 10341..10427, 10343..10429,  
10528..10566, 10529..10567, 10740..10874, 10747..10896,  
11340..11405, 11348..11404

Seq. No. 37831 Seq. ID OJ990729\_07.0110.C2

Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o2.tm	Method	TBLASTX:Maize
Start	6691	End	11411
GI	none	Score	100
Exons	6691..6786, 6829..7089, 6861..7088, 6940..7092, 8115..8336, 8116..8337, 9232..9324, 9263..9331, 9502..9582, 9504..9575, 9761..9847, 9768..9851, 9942..10034, 9955..10032, 10140..10223, 10142..10207, 10344..10427, 10526..10561, 10737..10874, 10747..10875, 10755..10877, 11155..11247, 11340..11411, 11348..11404		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o1.tw	Method	TBLASTX:Wheat
Start	10343	End	11382
GI	none	Score	130
Exons	10343..10432, 10344..10433, 10510..10572, 10511..10573, 10737..10889, 10746..10871, 10747..10890, 11143..11247, 11143..11247, 11340..11381, 11346..11381, 11347..11382		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o4.gs	Method	GENSCAN
Start	12624	End	14798
GI	none	Score	.94
Exons	12624..12704, 13478..13663, 14655..14798		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o4.tc	Method	TBLASTX:Cress
Start	12627	End	13657
GI	none	Score	89
Exons	12627..12710, 12640..12702, 13478..13657, 13479..13652, 13506..13637		

Seq. No.	37831	Seq. ID	OJ990729_07.0110.C2
Gene No.	77776	Strand	-
Start	12624	End	14841
Name	OJ990729_07.0110.C2.o3.ts	Method	TBLASTX:Soybean
Start	13415	End	14841
GI	none	Score	112
Exons	13415..13666, 13475..13663, 14650..14841, 14655..14834		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77777	Strand	+
Start	1	End	2111
Name	OJ990729_07.0110.C7.o1.np	Method	AAT/NAP
Start	1	End	2108
GI	4760370	Score	1511
Exons	1..41, 244..306, 396..738, 939..1139, 1279..1536, 1635..2108		
GI Descrip.	(AF082565) ATP dependent copper transporter [Arabidopsis thaliana] gi 4760380 gb AAD29115.1  (AF091112) ATP dependent copper transporter [Arabidopsis thaliana]		

gi|6850337|gb|AAC79141.2| (AC002342) ATP dependent copper transporter (RAN1) [Arabidopsis thaliana]

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77777	Strand	+
Start	1	End	2111
Name	OJ990729_07.0110.C7.o1.gs	Method	GENSCAN
Start	248	End	2111
GI	none	Score	.82
Exons	248..306, 396..738, 939..1139, 1279..1536, 1635..2111		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77777	Strand	+
Start	1	End	2111
Name	OJ990729_07.0110.C7.o1.gp	Method	AAT/GAP
Start	1377	End	1884
GI	LIB3433-055-P1-K1-C9	Score	758
Exons	1377..1536, 1635..1884		
GI Descrip.	'2660670 6.0e-60 (AC002342) putative Cu2+-transporting ATPase [Arabidopsis thaliana]'		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o1.tm	Method	TBLASTX:Maize
Start	235	End	743
GI	none	Score	88
Exons	235..306, 236..307, 236..307, 256..333, 385..417, 388..738, 395..457, 396..743, 397..738		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o2.ts	Method	TBLASTX:Soybean
Start	235	End	1025
GI	none	Score	69
Exons	235..312, 236..307, 388..522, 391..738, 456..743, 591..740, 921..1025, 929..1000		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o2.tc	Method	TBLASTX:Cress
Start	462	End	1545
GI	none	Score	198
Exons	462..674, 502..675, 918..983, 1083..1157, 1342..1545		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o4.tm	Method	TBLASTX:Maize
Start	929	End	1154
GI	none	Score	147
Exons	929..1141, 931..1140, 933..1154, 933..1148		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-

Start	4522	End	6889
Name	OJ990729_07.0110.C7.o1.ts	Method	TBLASTX:Soybean
Start	1041	End	2105
GI	none	Score	99
Exons	1041..1148, 1073..1141, 1255..1545, 1278..1538, 1632..2105, 1632..1748, 1634..2104		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o3.tm	Method	TBLASTX:Maize
Start	1333	End	1748
GI	none	Score	319
Exons	1333..1545, 1333..1548, 1622..1705, 1632..1748, 1634..1747		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o1.tw	Method	TBLASTX:Wheat
Start	1399	End	1901
GI	none	Score	70
Exons	1399..1545, 1656..1901		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o1.tc	Method	TBLASTX:Cress
Start	1629	End	2123
GI	none	Score	370
Exons	1629..1874, 1631..1891, 1878..2111, 1880..2110, 1956..2123		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o2.tm	Method	TBLASTX:Maize
Start	1769	End	2134
GI	none	Score	476
Exons	1769..2134, 1770..2111, 2057..2113		

Seq. No.	37832	Seq. ID	OJ990729_07.0110.C7
Gene No.	77778	Strand	-
Start	4522	End	6889
Name	OJ990729_07.0110.C7.o2.gs	Method	GENSCAN
Start	4522	End	6889
GI	none	Score	.67
Exons	4522..4554, 5701..5760, 6329..6397, 6809..6889		

Seq. No.	37833	Seq. ID	OJ990729_07.0110.C8
Gene No.	77779	Strand	+
Start	7657	End	10053
Name	OJ990729_07.0110.C8.o2.gp	Method	AAT/GAP
Start	7657	End	10020
GI	48621.1.R1084	Score	1322
Exons	7657..7805, 7922..8004, 8738..8840, 8923..9007, 9109..9225, 9713..9822, 9908..10020		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	37833	Seq. ID	OJ990729_07.0110.C8
Gene No.	77779	Strand	+
Start	7657	End	10053
Name	OJ990729_07.0110.C8.o1.np	Method	AAT/NAP
Start	8761	End	10053
GI	2827661	Score	342
Exons	8761..8840, 8923..9007, 9109..9177, 9713..9825, 9993..10053		
GI Descrip.	(AL021637) hyuC-like protein [Arabidopsis thaliana]		

Seq. No.	37833	Seq. ID	OJ990729_07.0110.C8
Gene No.	77780	Strand	-
Start	6561	End	7837
Name	OJ990729_07.0110.C8.o2.gs	Method	GENSCAN
Start	6561	End	7837
GI	none	Score	.57
Exons	6561..6760, 6796..7014, 7498..7618, 7694..7837		

Seq. No.	37833	Seq. ID	OJ990729_07.0110.C8
Gene No.	77781	Strand	-
Start	7948	End	10020
Name	OJ990729_07.0110.C8.o2.tm	Method	TBLASTX:Maize
Start	7948	End	9141
GI	none	Score	85
Exons	7948..8004, 7951..8007, 8729..8773, 8746..8841, 8755..8832, 8757..8843, 8920..9012, 8924..9007, 8924..9022, 8925..9008, 8932..9009, 9079..9141		

Seq. No.	37833	Seq. ID	OJ990729_07.0110.C8
Gene No.	77781	Strand	-
Start	7948	End	10020
Name	OJ990729_07.0110.C8.o1.tc	Method	TBLASTX:Cress
Start	8751	End	10019
GI	none	Score	93
Exons	8751..8843, 8755..8832, 8917..9000, 8924..9007, 9076..9228, 9087..9185, 9109..9201, 9710..9820, 9712..9822, 9905..10015, 9906..10019		

Seq. No.	37833	Seq. ID	OJ990729_07.0110.C8
Gene No.	77781	Strand	-
Start	7948	End	10020
Name	OJ990729_07.0110.C8.o1.tm	Method	TBLASTX:Maize
Start	9154	End	10020
GI	none	Score	110
Exons	9154..9228, 9160..9231, 9692..9820, 9692..9820, 9711..9830, 9712..9822, 9905..10015, 9905..10015, 9906..10019, 9907..10020		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77782	Strand	+
Start	1	End	2064
Name	OJ990729_07.0110.C9.o1.np	Method	AAT/NAP
Start	1	End	1906
GI	2827661	Score	527
Exons	1..65, 284..370, 1040..1139, 1191..1279, 1383..1511, 1679..1906		
GI Descrip.	(AL021637) hyuC-like protein [Arabidopsis thaliana]		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
----------	-------	---------	---------------------

Gene No.	77782	Strand	+
Start	1	End	2064
Name	OJ990729_07.0110.C9.o1.gp	Method	AAT/GAP
Start	86	End	1164
GI	48621.1.R1084	Score	545
Exons	86..193, 284..370, 1040..1164		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77782	Strand	+
Start	1	End	2064
Name	OJ990729_07.0110.C9.o1.gs	Method	GENSCAN
Start	88	End	1942
GI	none	Score	.9
Exons	88..193, 284..370, 1040..1279, 1383..1508, 1616..1942		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77782	Strand	+
Start	1	End	2064
Name	OJ990729_07.0110.C9.o2.gp	Method	AAT/GAP
Start	1458	End	2064
GI	50070.1.R1084	Score	893
Exons	1458..1508, 1616..2064		
GI Descrip.	'2827661/emb CAA16615.1  6.0e-13 (AL021637) hyuC-like protein [Arabidopsis thaliana]'		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77783	Strand	-
Start	2366	End	2937
Name	OJ990729_07.0110.C9.o2.gs	Method	GENSCAN
Start	2366	End	2937
GI	none	Score	.46
Exons	2366..2470, 2836..2937		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77784	Strand	-
Start	8867	End	9483
Name	OJ990729_07.0110.C9.o1.tm	Method	TBLASTX:Maize
Start	85	End	1909
GI	none	Score	102
Exons	85..195, 85..195, 86..199, 87..200, 273..371, 281..364, 283..372, 283..381, 284..373, 1038..1205, 1038..1160, 1039..1281, 1040..1282, 1380..1508, 1382..1504, 1613..1696, 1684..1902, 1691..1903, 1826..1909		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77784	Strand	-
Start	8867	End	9483
Name	OJ990729_07.0110.C9.o1.ts	Method	TBLASTX:Soybean
Start	1145	End	1897
GI	none	Score	66
Exons	1145..1225, 1211..1282, 1219..1287, 1380..1508, 1382..1504, 1724..1897, 1729..1878		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77784	Strand	-

Start	8867	End	9483
Name	OJ990729_07.0110.C9.o1.tc	Method	TBLASTX:Cress
Start	1712	End	1897
GI	none	Score	212
Exons	1712..1897, 1723..1878		

Seq. No.	37834	Seq. ID	OJ990729_07.0110.C9
Gene No.	77784	Strand	-
Start	8867	End	9483
Name	OJ990729_07.0110.C9.o2.np	Method	AAT/NAP
Start	8867	End	9483
GI	6721559	Score	392
Exons	8867..9001, 9030..9483		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37835	Seq. ID	OJ990729_07.0110.C10
Gene No.	77785	Strand	+
Start	642	End	2070
Name	OJ990729_07.0110.C10.o1.gs	Method	GENSCAN
Start	642	End	2070
GI	none	Score	65
Exons	642..706, 1354..1477, 1972..2070		

Seq. No.	37835	Seq. ID	OJ990729_07.0110.C10
Gene No.	77786	Strand	+
Start	5265	End	6048
Name	OJ990729_07.0110.C10.o2.np	Method	AAT/NAP
Start	5265	End	6048
GI	626027	Score	154
Exons	5265..5372, 5817..6048		
GI Descrip.	fim protein - garden snapdragon gi 547307 bbs 149407 (S71192) fim=fimbriata [Antirrhinum majus, Peptide, 429 aa] [Antirrhinum majus]		

Seq. No.	37835	Seq. ID	OJ990729_07.0110.C10
Gene No.	77787	Strand	-
Start	652	End	1400
Name	OJ990729_07.0110.C10.o1.np	Method	AAT/NAP
Start	652	End	1400
GI	4680183	Score	172
Exons	652..743, 1333..1400		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	37835	Seq. ID	OJ990729_07.0110.C10
Gene No.	77788	Strand	-
Start	4399	End	5872
Name	OJ990729_07.0110.C10.o2.gs	Method	GENSCAN
Start	4399	End	5872
GI	none	Score	.94
Exons	4399..4419, 5564..5872		

Seq. No.	37836	Seq. ID	OJ990729_07.0110.C11
Gene No.	77789	Strand	+
Start	1	End	789
Name	OJ990729_07.0110.C11.o1.np	Method	AAT/NAP

Start	1	End	789
GI	4982507	Score	414
Exons	1..214, 297..789		
GI Descrip.	(AC000107) F17F8.13 [Arabidopsis thaliana]		

Seq. No.	37837	Seq. ID	OJ990729_07.0110.C13
Gene No.	77790	Strand	+
Start	140	End	453
Name	OJ990729_07.0110.C13.o1.gs	Method	GENSCAN
Start	140	End	453
GI	none	Score	.75
Exons	140..453		

Seq. No.	37838	Seq. ID	OJ990729_07.0110.C14
Gene No.	77791	Strand	+
Start	1803	End	1957
Name	OJ990729_07.0110.C14.o1.gp	Method	AAT/GAP
Start	1803	End	1957
GI	uC-osflcyp177g01a1	Score	254
Exons	1803..1957		
GI Descrip.	'4884864/gb AAD31846.1 AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	37838	Seq. ID	OJ990729_07.0110.C14
Gene No.	77792	Strand	-
Start	1	End	1760
Name	OJ990729_07.0110.C14.o1.np	Method	AAT/NAP
Start	1	End	1760
GI	4680183	Score	2872
Exons	1..1760		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	37838	Seq. ID	OJ990729_07.0110.C14
Gene No.	77793	Strand	-
Start	4226	End	4340
Name	OJ990729_07.0110.C14.o2.gp	Method	AAT/GAP
Start	4226	End	4340
GI	uC-osflcyp142d10b1	Score	204
Exons	4226..4340		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	37838	Seq. ID	OJ990729_07.0110.C14
Gene No.	77794	Strand	-
Start	4399	End	6174
Name	OJ990729_07.0110.C14.o1.tw	Method	TBLASTX:Wheat
Start	69	End	471
GI	none	Score	116
Exons	69..470, 202..471		

Seq. No.	37838	Seq. ID	OJ990729_07.0110.C14
Gene No.	77794	Strand	-
Start	4399	End	6174
Name	OJ990729_07.0110.C14.o3.gp	Method	AAT/GAP
Start	4399	End	6174
GI	17481_1.R1084	Score	564
Exons	4399..4491, 4694..4788, 4905..4949, 5962..6041, 6139..6174		



GI Descrip. '3033396 8.0e-21 (AC004238) unknown protein [Arabidopsis thaliana]'

Seq. No.	37838	Seq. ID	OJ990729_07.0110.C14
Gene No.	77794	Strand	-
Start	4399	End	6174
Name	OJ990729_07.0110.C14.o2.np	Method	AAT/NAP
Start	4693	End	6174
GI	3033396	Score	165
Exons	4693..4788, 4905..4949, 5962..6041, 6139..6174		
GI Descrip.	(AC004238) putative thioredoxin [Arabidopsis thaliana]		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o2.gs	Method	GENSCAN
Start	4330	End	8521
GI	none	Score	.68
Exons	4330..4521, 6362..6580, 7922..8521		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o1.np	Method	AAT/NAP
Start	6335	End	10221
GI	4760370	Score	1511
Exons	6335..6649, 7922..8536, 9043..9472, 9644..9973, 10167..10221		
GI Descrip.	(AF082565) ATP dependent copper transporter [Arabidopsis thaliana] gi 4760380 gb AAD29115.1  (AF091112) ATP dependent copper transporter [Arabidopsis thaliana] gi 6850337 gb AAC79141.2  (AC002342) ATP dependent copper transporter (RAN1) [Arabidopsis thaliana]		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o1.tm	Method	TBLASTX:Maize
Start	7964	End	8416
GI	none	Score	382
Exons	7964..8239, 7990..8238, 8282..8416		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o4.tm	Method	TBLASTX:Maize
Start	9024	End	9202
GI	none	Score	264
Exons	9024..9179, 9028..9201, 9034..9201, 9035..9202		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o2.gp	Method	AAT/GAP
Start	9030	End	9706
GI	uC-osroM202006b06b1	Score	976
Exons	9030..9472, 9644..9706		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for		

dihydroflavonol 4-reductase, complete cds'

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o3.gs	Method	GENSCAN
Start	9106	End	9969
GI	none	Score	.78
Exons	9106..9153, 9376..9472, 9644..9969		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o3.tm	Method	TBLASTX:Maize
Start	9266	End	9468
GI	none	Score	143
Exons	9266..9388, 9267..9467, 9268..9468		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o1.tc	Method	TBLASTX:Cress
Start	9372	End	9857
GI	none	Score	127
Exons	9372..9473, 9373..9474, 9632..9793, 9642..9857, 9645..9854, 9646..9855		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o2.tm	Method	TBLASTX:Maize
Start	9642	End	9981
GI	none	Score	362
Exons	9642..9968, 9643..9981, 9670..9972		

Seq. No.	37839	Seq. ID	OJ990729_07.0110.C15
Gene No.	77795	Strand	+
Start	4330	End	10221
Name	OJ990729_07.0110.C15.o1.ts	Method	TBLASTX:Soybean
Start	9702	End	9981
GI	none	Score	109
Exons	9702..9800, 9703..9981, 9705..9977		

Seq. No.	37840	Seq. ID	OJ990729_07.0110.C17
Gene No.	77796	Strand	+
Start	129	End	370
Name	OJ990729_07.0110.C17.o1.gs	Method	GENSCAN
Start	129	End	370
GI	none	Score	.96
Exons	129..218, 320..370		

Seq. No.	37841	Seq. ID	OJ990729_07.0110.C18
Gene No.	77797	Strand	+
Start	1142	End	2444
Name	OJ990729_07.0110.C18.o1.gs	Method	GENSCAN
Start	1142	End	2444
GI	none	Score	.49

Exons 1142..1349, 2237..2444

Seq. No.	37841	Seq. ID	OJ990729_07.0110.C18
Gene No.	77798	Strand	-
Start	4469	End	4842
Name	OJ990729_07.0110.C18.o2.gs	Method	GENSCAN
Start	4469	End	4842
GI	none	Score	.78
Exons	4469..4559, 4703..4842		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77799	Strand	+
Start	1949	End	11135
Name	OJ990729_07.0110.C19.o1.gs	Method	GENSCAN
Start	1949	End	11135
GI	none	Score	.49
Exons	1949..2166, 3309..3397, 3689..3714, 3821..4016, 4189..4265, 4460..4514, 4825..4885, 4997..5069, 5480..6048, 7472..7678, 8954..9010, 9185..9242, 9727..9869, 10399..10518, 11048..11135		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77799	Strand	+
Start	1949	End	11135
Name	OJ990729_07.0110.C19.o1.np	Method	AAT/NAP
Start	3821	End	7623
GI	4455293	Score	299
Exons	3821..4016, 4165..4269, 4315..4439, 4989..5078, 5471..5571, 7584..7623		

GI Descrip. (AL035528) putative protein [Arabidopsis thaliana]

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77799	Strand	+
Start	1949	End	11135
Name	OJ990729_07.0110.C19.o2.np	Method	AAT/NAP
Start	10306	End	10443
GI	6006359	Score	72
Exons	10306..10443		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77800	Strand	+
Start	13489	End	16616
Name	OJ990729_07.0110.C19.o1.gp	Method	AAT/GAP
Start	13317	End	14553
GI	416111.1.R1084	Score	981

Exons 13317..13597, 14085..14143, 14270..14344, 14419..14553

GI Descrip. '4585976/gb|AAD25612.1|AC005287\_14 3.0e-21 (AC005287) Unknown protein [Arabidopsis thaliana]'

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77800	Strand	+
Start	13489	End	16616
Name	OJ990729_07.0110.C19.o2.gs	Method	GENSCAN
Start	13489	End	16369
GI	none	Score	.87
Exons	13489..13597, 14085..14143, 14270..14344, 14419..14535, 14718..14788, 14943..15243, 15460..15649, 16290..16369		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77800	Strand	+
Start	13489	End	16616
Name	OJ990729_07.0110.C19.o3.np	Method	AAT/NAP
Start	13510	End	16341
GI	4585976	Score	1063
Exons	13510..13597, 14085..14143, 14270..14344, 14419..14535, 14718..14788, 14943..15243, 15460..15749, 16290..16341		
GI Descrip.	(AC005287) Unknown protein [Arabidopsis thaliana]		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77800	Strand	+
Start	13489	End	16616
Name	OJ990729_07.0110.C19.o2.gp	Method	AAT/GAP
Start	15040	End	16616
GI	24747_1.R1084	Score	1506
Exons	15040..15243, 15460..15749, 16290..16616		
GI Descrip.	'4585976/gb AAD25612.1 AC005287_14 2.0e-69 (AC005287) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77801	Strand	+
Start	16841	End	17343
Name	OJ990729_07.0110.C19.o3.gp	Method	AAT/GAP
Start	16841	End	17343
GI	1270_1.R1084	Score	970
Exons	16841..17343		
GI Descrip.	'1362147/pir  S56690 2.0e-17 hypothetical protein (clone AFD1) - wild oat (fragment) >gi_726471 (U19996) putative ORF1 [Avena fatua]'		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o3.tc	Method	TBLASTX:Cress
Start	3877	End	4886
GI	none	Score	187
Exons	3877..4017, 3902..4015, 3902..4021, 4188..4265, 4190..4264, 4191..4265, 4821..4886		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o4.ts	Method	TBLASTX:Soybean
Start	3892	End	4886
GI	none	Score	217
Exons	3892..4017, 3893..4015, 4188..4265, 4190..4270, 4190..4264, 4457..4480, 4481..4516, 4821..4886, 4823..4885		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o3.ts	Method	TBLASTX:Soybean
Start	14748	End	15246
GI	none	Score	88
Exons	14748..14792, 14941..15018, 14943..15023, 15019..15246,		

15024..15140, 15028..15231

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o2.tm	Method	TBLASTX:Maize
Start	14944	End	16326
GI	none	Score	481
Exons	14944..15252, 14954..15277, 14955..15185, 15137..15250, 15459..15749, 15460..15750, 15460..15750, 15461..15751, 16288..16326		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o1.tc	Method	TBLASTX:Cress
Start	14968	End	16344
GI	none	Score	50
Exons	14968..15018, 15033..15185, 15034..15252, 15040..15222, 15459..15578, 15460..15750, 15460..15768, 16288..16344		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o2.ts	Method	TBLASTX:Soybean
Start	15145	End	16518
GI	none	Score	67
Exons	15145..15192, 15456..15734, 15460..15750, 15460..15750, 15521..15751, 16288..16380, 16462..16518		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o3.gs	Method	GENSCAN
Start	17172	End	22454
GI	none	Score	.79
Exons	17172..17492, 17600..17806, 17909..18186, 18316..18429, 18460..18597, 18871..19016, 19196..19400, 20528..20720, 20761..21089, 22343..22454		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o1.tm	Method	TBLASTX:Maize
Start	17199	End	17659
GI	none	Score	390
Exons	17199..17498, 17200..17490, 17202..17501, 17600..17659, 17604..17657, 17605..17658		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o4.np	Method	AAT/NAP
Start	17199	End	18172
GI	2660676	Score	953
Exons	17199..17489, 17600..17806, 17909..18172		
GI Descrip.	(AC002342) Dreg-2 like protein [Arabidopsis thaliana]		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o1.ts	Method	TBLASTX:Soybean
Start	17340	End	18190
GI	none	Score	120
Exons	17340..17498, 17341..17502, 17600..17830, 17604..17807, 17878..18129, 17909..18190, 17910..18167		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o4.gp	Method	AAT/GAP
Start	17590	End	18602
GI	9573_1.R1084	Score	1124
Exons	17590..17806, 17909..18186, 18460..18602		
GI Descrip.	'2660676 2.0e-67 (AC002342) Dreg-2 like protein [Arabidopsis thaliana]'		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o3.tm	Method	TBLASTX:Maize
Start	17750	End	18070
GI	none	Score	65
Exons	17750..17830, 17751..17840, 17909..18070, 17910..18062, 17965..18063		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o5.np	Method	AAT/NAP
Start	20491	End	21029
GI	4835761	Score	252
Exons	20491..21029		
GI Descrip.	(AC007202) T8K14.10 [Arabidopsis thaliana]		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o4.tm	Method	TBLASTX:Maize
Start	20524	End	20763
GI	none	Score	156
Exons	20524..20763, 20529..20762		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454
Name	OJ990729_07.0110.C19.o2.tc	Method	TBLASTX:Cress
Start	20527	End	20763
GI	none	Score	42
Exons	20527..20577, 20529..20762, 20602..20763		

Seq. No.	37842	Seq. ID	OJ990729_07.0110.C19
Gene No.	77802	Strand	-
Start	17172	End	22454

Name	OJ990729_07.0110.C19.o5.ts	Method	TBLASTX:Soybean
Start	20527	End	20763
GI	none	Score	129
Exons	20527..20763, 20529..20762		
Seq. No.	37843	Seq. ID	OJ990729_07.0110.C20
Gene No.	77803	Strand	-
Start	329	End	979
Name	OJ990729_07.0110.C20.o1.gs	Method	GENSCAN
Start	329	End	979
GI	none	Score	.58
Exons	329..391, 921..979		
Seq. No.	37844	Seq. ID	OJ990729_07.0110.C22
Gene No.	77804	Strand	-
Start	172	End	308
Name	OJ990729_07.0110.C22.o1.gs	Method	GENSCAN
Start	172	End	308
GI	none	Score	.72
Exons	172..308		
Seq. No.	37845	Seq. ID	OJ990729_07.0110.C23
Gene No.	77805	Strand	+
Start	71	End	218
Name	OJ990729_07.0110.C23.o1.gs	Method	GENSCAN
Start	71	End	218
GI	none	Score	.97
Exons	71..218		
Seq. No.	37846	Seq. ID	OJ990729_07.0110.C25
Gene No.	77806	Strand	+
Start	182	End	468
Name	OJ990729_07.0110.C25.o1.tm	Method	TBLASTX:Maize
Start	181	End	468
GI	none	Score	168
Exons	181..300, 182..292, 370..462, 396..461, 397..468		
Seq. No.	37846	Seq. ID	OJ990729_07.0110.C25
Gene No.	77806	Strand	+
Start	182	End	468
Name	OJ990729_07.0110.C25.o1.gs	Method	GENSCAN
Start	182	End	460
GI	none	Score	.73
Exons	182..296, 398..460		
Seq. No.	37847	Seq. ID	OJ990729_07.0110.C26
Gene No.	77807	Strand	-
Start	377	End	558
Name	OJ990729_07.0110.C26.o1.gs	Method	GENSCAN
Start	377	End	558
GI	none	Score	.56
Exons	377..558		
Seq. No.	37848	Seq. ID	OJ990729_07.0110.C29
Gene No.	77808	Strand	-
Start	134	End	538
Name	OJ990729_07.0110.C29.o1.gs	Method	GENSCAN

Start 134  
GI none  
Exons 134..538

End 538  
Score .97

Seq. No. 37849 Seq. ID OJ990729\_01.0114.C2  
Gene No. 77809 Strand +  
Start 11589 End 13782  
Name OJ990729\_01.0114.C2.o3.gp Method AAT/GAP  
Start 11540 End 13782  
GI none Score 2073  
Exons 11540..11785, 11875..11959, 12331..12409, 12533..12646,  
12890..13002, 13211..13318, 13401..13782

Seq. No. 37849 Seq. ID OJ990729\_01.0114.C2  
Gene No. 77809 Strand +  
Start 11589 End 13782  
Name OJ990729\_01.0114.C2.o2.gs Method GENSCAN  
Start 11589 End 13520  
GI none Score .81  
Exons 11589..11785, 11875..11959, 12331..12409, 12533..12562,  
12890..13002, 13211..13318, 13401..13520

Seq. No. 37849 Seq. ID OJ990729\_01.0114.C2  
Gene No. 77810 Strand +  
Start 17435 End 18418  
Name OJ990729\_01.0114.C2.o4.gs Method GENSCAN  
Start 17435 End 18418  
GI none Score .89  
Exons 17435..17515, 17707..17847, 18011..18418

Seq. No. 37849 Seq. ID OJ990729\_01.0114.C2  
Gene No. 77811 Strand -  
Start 33 End 11093  
Name OJ990729\_01.0114.C2.o1.np Method AAT/NAP  
Start 33 End 4964  
GI 4263792 Score 1324  
Exons 33..284, 886..1005, 1108..1255, 2050..2163, 2682..2806,  
3287..3426, 3731..3912, 4493..4964  
GI Descrip. (AC006068) unknown protein [Arabidopsis thaliana]

Seq. No. 37849 Seq. ID OJ990729\_01.0114.C2  
Gene No. 77811 Strand -  
Start 33 End 11093  
Name OJ990729\_01.0114.C2.o1.gs Method GENSCAN  
Start 454 End 11093  
GI none Score .741  
Exons 454..552, 571..610, 886..1005, 1108..1206, 2843..2937,  
3291..3426, 3677..3933, 4493..5018, 5146..5297, 9500..9575,  
9660..9727, 9827..10087, 10099..10514, 11086..11093

Seq. No. 37849 Seq. ID OJ990729\_01.0114.C2  
Gene No. 77811 Strand -  
Start 33 End 11093  
Name OJ990729\_01.0114.C2.o1.gp Method AAT/GAP  
Start 1097 End 1208  
GI LIB3477-002-P1-K1-H11 Score 181  
Exons 1097..1208



GI Descrip. '3608127 3.0e-28 (AC005314) unknown protein [Arabidopsis thaliana]'

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77811	Strand	-
Start	33	End	11093
Name	OJ990729_01.0114.C2.o2.gp	Method	AAT/GAP
Start	7586	End	8920
GI	13768_1.R1084	Score	902
Exons	7586..8013, 8828..8920		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-11 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77812	Strand	-
Start	14322	End	17753
Name	OJ990729_01.0114.C2.o4.gp	Method	AAT/GAP
Start	14040	End	17753
GI	15074_1.R1084	Score	1227
Exons	14040..14074, 14132..14391, 14473..14540, 15901..15952, 16046..16215, 16293..16326, 17632..17753		

GI Descrip. '4960150/gb|AAD34613.1|AF153277\_1 1.0e-46 (AF153277)  
DNA-directed RNA polymerase IIa [Nicotiana tabacum]  
>gi\_4960152\_gb\_AAD34614.1\_AF153278\_1 (AF153278) DNA-directed RNA  
polymerase IIb [Nicotiana tabacum]'

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77812	Strand	-
Start	14322	End	17753
Name	OJ990729_01.0114.C2.o3.gs	Method	GENSCAN
Start	14322	End	16350
GI	none	Score	.91
Exons	14322..14391, 14473..14540, 15901..15952, 16046..16215, 16327..16350		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77812	Strand	-
Start	14322	End	17753
Name	OJ990729_01.0114.C2.o2.np	Method	AAT/NAP
Start	14325	End	17663
GI	4960150	Score	418
Exons	14325..14391, 14473..14540, 15901..15952, 16046..16215, 16293..16326, 17632..17663		

GI Descrip.: (AF153277) DNA-directed RNA polymerase IIa [Nicotiana tabacum]  
>gi\_4960152\_gb\_AAD34614.1\_AF153278\_1 (AF153278) DNA-directed RNA  
polymerase IIb [Nicotiana tabacum]

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o5.tm	Method	TBLASTX:Maize
Start	928	End	2750
GI	none	Score	54
Exons	928..1002, 931..1008, 1060..1095, 1099..1221, 1100..1225, 2047..2163, 2048..2164, 2049..2171, 2677..2736, 2679..2750		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
----------	-------	---------	---------------------

Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o5.ts	Method	TBLASTX:Soybean
Start	1105	End	2164
GI	none	Score	70
Exons	1105..1221, 1106..1207, 2043..2159, 2047..2160, 2047..2163, 2048..2164		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o2.tc	Method	TBLASTX:Cress
Start	1111	End	3394
GI	none	Score	76
Exons	1111..1221, 1124..1225, 2042..2164, 2047..2163, 2049..2165, 2679..2753, 2840..2953, 2844..2939, 3280..3393, 3290..3394		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o8.ts	Method	TBLASTX:Soybean
Start	3301	End	3814
GI	none	Score	127
Exons	3301..3429, 3302..3430, 3303..3434, 3671..3739, 3713..3814		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o4.tm	Method	TBLASTX:Maize
Start	3327	End	3850
GI	none	Score	71
Exons	3327..3401, 3328..3462, 3329..3403, 3676..3774, 3677..3766, 3758..3850, 3769..3846		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o3.ts	Method	TBLASTX:Soybean
Start	3887	End	4700
GI	none	Score	115
Exons	3887..3934, 4494..4697, 4494..4700		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o2.tm	Method	TBLASTX:Maize
Start	11588	End	15954
GI	none	Score	67
Exons	11588..11635, 11589..11636, 11621..11698, 11622..11684, 11874..11936, 11877..11942, 11878..11955, 11878..11955, 11879..11956, 12324..12392, 12330..12410, 12331..12411, 12523..12660, 12531..12689, 12532..12669, 12888..12953, 12889..13002, 12916..13002, 13204..13380, 13208..13318, 13210..13320, 13400..13519, 13400..13495, 13401..13520, 13404..13511, 14323..14391, 14328..14393, 14329..14352, 14343..14390, 14473..14541, 14475..14540, 15898..15930, 15925..15954		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o4.ts	Method	TBLASTX:Soybean
Start	11881	End	13511
GI	none	Score	124
Exons	11881..11955, 11882..11959, 12330..12410, 12331..12411, 12531..12668, 12532..12669, 12888..12953, 12889..13002, 13213..13296, 13214..13297, 13400..13498, 13401..13511		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o3.tc	Method	TBLASTX:Cress
Start	14328	End	16140
GI	none	Score	43
Exons	14328..14393, 14343..14387, 14467..14541, 14475..14540, 15898..15954, 15903..15953, 16046..16123, 16048..16140		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o6.ts	Method	TBLASTX:Soybean
Start	14328	End	16325
GI	none	Score	60
Exons	14328..14393, 14346..14393, 14473..14541, 14475..14540, 15898..15954, 15901..15972, 16046..16123, 16048..16149, 16293..16325		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o2.tw	Method	TBLASTX:Wheat
Start	14346	End	16217
GI	none	Score	61
Exons	14346..14393, 14346..14393, 14473..14541, 14475..14543, 14475..14540, 15898..15954, 15901..15963, 16046..16132, 16046..16132, 16047..16217, 16048..16167		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o7.tm	Method	TBLASTX:Maize
Start	16046	End	16328
GI	none	Score	117
Exons	16046..16132, 16046..16132, 16047..16217, 16048..16167, 16062..16217, 16290..16328, 16293..16325		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o5.gs	Method	GENSCAN
Start	22499	End	36606
GI	none	Score	.79
Exons	22499..22592, 25389..25511, 25665..25908, 26175..26313, 26378..26605, 28578..28751, 28839..29444, 29549..29872,		

30305..30734, 32674..32765, 32767..32910, 32997..33056,  
33137..33270, 33526..33652, 33881..33979, 34056..34155,  
34243..34313, 35298..35429, 36154..36323, 36341..36606

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o7.ts	Method	TBLASTX:Soybean
Start	24355	End	25735
GI	none	Score	115
Exons	24355..24489, 24356..24493, 25370..25513, 25389..25514, 25659..25730, 25664..25735		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o3.np	Method	AAT/NAP
Start	24449	End	36303
GI	6899899	Score	3888
Exons	24449..24487, 25364..25511, 25665..25943, 26030..26313, 26378..26605, 28578..28751, 28839..29444, 29549..29872, 30305..30734, 32674..32910, 32997..33056, 33137..33272, 33522..33652, 33881..33979, 34056..34155, 34243..34313, 34743..34814, 35298..35429, 36154..36303		

GI Descrip. (AL138642) putative protein [Arabidopsis thaliana]

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o1.tc	Method	TBLASTX:Cress
Start	25388	End	34811
GI	none	Score	86
Exons	25388..25510, 25389..25511, 25667..25762, 25680..25772, 25820..25942, 25863..25931, 26029..26313, 26030..26113, 26053..26310, 26363..26527, 26375..26485, 26525..26560, 29603..29770, 29771..29881, 30329..30397, 34746..34811		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o1.tm	Method	TBLASTX:Maize
Start	25388	End	29195
GI	none	Score	40
Exons	25388..25441, 25389..25418, 25390..25437, 25430..25513, 25454..25513, 25461..25514, 25625..25939, 25659..25940, 25662..25940, 25664..25942, 29079..29195		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o1.tw	Method	TBLASTX:Wheat
Start	26035	End	34811
GI	none	Score	121
Exons	26035..26121, 26037..26120, 26039..26122, 26044..26151, 26128..26325, 26129..26203, 26140..26307, 26363..26521, 26375..26509, 29696..29770, 29762..29881, 30329..30397, 33881..33955, 34233..34313, 34746..34811		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o2.ts	Method	TBLASTX:Soybean
Start	26053	End	34815
GI	none	Score	259
Exons	26053..26214, 26230..26316, 29606..29887, 29607..29873, 29609..29887, 29739..29888, 33887..33955, 34053..34157, 34239..34313, 34750..34815, 34752..34811		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o1.ts	Method	TBLASTX:Soybean
Start	26363	End	32847
GI	none	Score	65
Exons	26363..26512, 26393..26503, 26520..26606, 26525..26644, 28555..28752, 28575..28751, 28842..29072, 28843..29043, 30329..30409, 30443..30535, 32682..32732, 32767..32847		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o3.tm	Method	TBLASTX:Maize
Start	26378	End	34811
GI	none	Score	167
Exons	26378..26515, 26378..26521, 26497..26607, 26519..26608, 26520..26606, 28573..28698, 28575..28700, 28575..28697, 30329..30397, 30428..30526, 34746..34811		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o5.gp	Method	AAT/GAP
Start	26517	End	28936
GI	427903	Score	615
Exons	26517..26605, 28578..28751, 28839..28936		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o6.tm	Method	TBLASTX:Maize
Start	29546	End	33926
GI	none	Score	169
Exons	29546..29647, 33485..33673, 33512..33652, 33516..33653, 33879..33926, 33881..33925		

Seq. No.	37849	Seq. ID	OJ990729_01.0114.C2
Gene No.	77813	Strand	-
Start	22499	End	36606
Name	OJ990729_01.0114.C2.o4.tc	Method	TBLASTX:Cress
Start	33524	End	33971
GI	none	Score	116
Exons	33524..33655, 33825..33971, 33881..33964		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
----------	-------	---------	---------------------

Gene No.	77814	Strand	+
Start	996	End	2435
Name	OJ990729_01.0114.C3.o1.gs	Method	GENSCAN
Start	996	End	2435
GI	none	Score	.79
Exons	996..1072, 2120..2176, 2234..2435		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77815	Strand	+
Start	13375	End	19787
Name	OJ990729_01.0114.C3.o4.gp	Method	AAT/GAP
Start	13350	End	14578
GI	73416_1.R1084	Score	844
Exons	13350..13491, 13599..13691, 13807..13875, 14273..14362, 14448..14578		

GI Descrip. '3548803 1.0e-38 (AC005313) putative DNA-binding protein [Arabidopsis thaliana] >gi\_4335770\_gb\_AAD17447\_ (AC006284) putative SMUBP-2 [mouse] DNA-binding protein [Arabidopsis thaliana]'

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77815	Strand	+
Start	13375	End	19787
Name	OJ990729_01.0114.C3.o3.gs	Method	GENSCAN
Start	13375	End	19503
GI	none	Score	.84
Exons	13375..13653, 13876..14055, 14273..14362, 14448..14531, 14808..14972, 15715..15902, 16083..16155, 16486..16539, 16739..16996, 17611..17817, 18013..18116, 18529..18673, 18828..18962, 19330..19503		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77815	Strand	+
Start	13375	End	19787
Name	OJ990729_01.0114.C3.o2.np	Method	AAT/NAP
Start	13438	End	19500
GI	4335770	Score	2070
Exons	13438..13491, 13587..13691, 13807..13875, 14273..14362, 14448..14531, 14808..14972, 15715..15902, 16083..16155, 16486..16539, 16739..16996, 17611..17817, 18013..18116, 18529..18673, 18828..18962, 19330..19500		

GI Descrip. (AC006284) putative helicase [Arabidopsis thaliana]

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77815	Strand	+
Start	13375	End	19787
Name	OJ990729_01.0114.C3.o5.gp	Method	AAT/GAP
Start	17698	End	19787
GI	10716_1.R1084	Score	1723
Exons	17698..17817, 18013..18116, 18529..18673, 18828..18962, 19330..19787		

GI Descrip. '3548803 9.0e-62 (AC005313) putative DNA-binding protein [Arabidopsis thaliana] >gi\_4335770\_gb\_AAD17447\_ (AC006284) putative SMUBP-2 [mouse] DNA-binding protein [Arabidopsis thaliana]'

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
----------	-------	---------	---------------------

Gene No. 77816 Strand +  
 Start 21684 End 26620  
 Name OJ990729\_01.0114.C3.o6.gp Method AAT/GAP  
 Start 21572 End 22595  
 GI 65544\_1.R1084 Score 907  
 Exons 21572..21740, 21856..21906, 22036..22223, 22310..22394,  
 22571..22595  
 GI Descrip. '1709203/sp|P54926|MYO1\_LYCES 4.0e-59 MYO-INOSITOL-1(OR  
 4)-MONOPHOSPHATASE 1 (IMP 1) (INOSITOL MONOPHOSPHATASE 1)  
 >gi\_1098977 (U39444) myo-inositol monophosphatase 1  
 [Lycopersicon esculentum]'

Seq. No. 37850 Seq. ID OJ990729\_01.0114.C3  
 Gene No. 77816 Strand +  
 Start 21684 End 26620  
 Name OJ990729\_01.0114.C3.o3.np Method AAT/NAP  
 Start 21672 End 24350  
 GI 1709205 Score 781  
 Exons 21672..21740, 21856..21906, 22036..22223, 22310..22394,  
 22571..22625, 22721..22764, 23768..23836, 23930..24030,  
 24119..24175, 24263..24350  
 GI Descrip. MYO-INOSITOL-1(OR 4)-MONOPHOSPHATASE 3 (IMP 3) (INOSITOL  
 MONOPHOSPHATASE 3) gi\_1098971 (U39059) myo-inositol  
 monophosphatase 3 [Lycopersicon esculentum]

Seq. No. 37850 Seq. ID OJ990729\_01.0114.C3  
 Gene No. 77816 Strand +  
 Start 21684 End 26620  
 Name OJ990729\_01.0114.C3.o4.gs Method GENSCAN  
 Start 21684 End 26620  
 GI none Score .67  
 Exons 21684..21740, 21856..21906, 21964..22223, 22310..22394,  
 22571..22625, 22721..22764, 23768..23836, 23930..24030,  
 24119..24175, 25114..25557, 26230..26620

Seq. No. 37850 Seq. ID OJ990729\_01.0114.C3  
 Gene No. 77816 Strand +  
 Start 21684 End 26620  
 Name OJ990729\_01.0114.C3.o7.gp Method AAT/GAP  
 Start 22721 End 24633  
 GI 82977\_1.R1084 Score 1126  
 Exons 22721..22764, 23768..23836, 23930..24030, 24119..24175,  
 24263..24633  
 GI Descrip. '1709205/sp|P54928|MYO3\_LYCES 1.0e-36 MYO-INOSITOL-1(OR  
 4)-MONOPHOSPHATASE 3 (IMP 3) (INOSITOL MONOPHOSPHATASE 3)  
 >gi\_1098971 (U39059) myo-inositol monophosphatase 3  
 [Lycopersicon esculentum]'

Seq. No. 37850 Seq. ID OJ990729\_01.0114.C3  
 Gene No. 77816 Strand +  
 Start 21684 End 26620  
 Name OJ990729\_01.0114.C3.o8.gp Method AAT/GAP  
 Start 25155 End 26038  
 GI none Score 1007  
 Exons 25155..25498, 25558..25686, 25946..26038

Seq. No. 37850 Seq. ID OJ990729\_01.0114.C3

Gene No.	77817	Strand	+
Start	26591	End	26883
Name	OJ990729_01.0114.C3.o9.gp	Method	AAT/GAP
Start	26591	End	26883
GI	none	Score	562
Exons	26591..26883		

  

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77818	Strand	-
Start	5936	End	13478
Name	OJ990729_01.0114.C3.o1.gp	Method	AAT/GAP
Start	4994	End	6762
GI	62345_1.R1084	Score	1046
Exons	4994..5165, 5773..5843, 5942..6085, 6498..6566, 6648..6762		
GI Descrip.	'4325324/gb AAD17333  4.0e-59 (AF125574) lysyl-tRNA synthetase; LysRS [Arabidopsis thaliana] >gi_6041823_gb_AAF02138.1 AC009918_10 (AC009918) lysyl-tRNA synthetase [Arabidopsis thaliana]'		

  

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77818	Strand	-
Start	5936	End	13478
Name	OJ990729_01.0114.C3.o1.np	Method	AAT/NAP
Start	5764	End	13478
GI	4325324	Score	1822
Exons	5764..5843, 5942..6085, 6498..6566, 6648..6791, 7129..7285, 7391..7487, 7735..8017, 8102..8227, 8818..8898, 10707..10792, 11113..11198, 12049..12142, 12236..12401, 12497..12557, 12794..12881, 13280..13369, 13454..13478		
GI Descrip.	(AF125574) lysyl-tRNA synthetase; LysRS [Arabidopsis thaliana] gi_6041823_gb_AAF02138.1 AC009918_10 (AC009918) lysyl-tRNA synthetase [Arabidopsis thaliana]		

  

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77818	Strand	-
Start	5936	End	13478
Name	OJ990729_01.0114.C3.o2.gs	Method	GENSCAN
Start	5936	End	13067
GI	none	Score	.78
Exons	5936..6085, 6498..6566, 6648..6791, 7129..7285, 7391..7487, 7735..8017, 8102..8227, 8818..8938, 9769..9916, 10048..10266, 11113..11198, 12049..12142, 12236..12401, 12497..12571, 12802..12877, 12979..13067		

  

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77818	Strand	-
Start	5936	End	13478
Name	OJ990729_01.0114.C3.o2.gp	Method	AAT/GAP
Start	7227	End	8202
GI	LIB3477-004-P1-K1-F7	Score	1012
Exons	7227..7285, 7391..7487, 7735..8017, 8102..8202		
GI Descrip.	'4325324/gb AAD17333  9.0e-85 (AF125574) lysyl-tRNA synthetase; LysRS [Arabidopsis thaliana] >gi_6041823_gb_AAF02138.1 AC009918_10 (AC009918) lysyl-tRNA synthetase [Arabidopsis thaliana]'		

  

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
----------	-------	---------	---------------------



Gene No.	77818	Strand	-
Start	5936	End	13478
Name	OJ990729_01.0114.C3.o3.gp	Method	AAT/GAP
Start	12358	End	13165
GI	5003803	Score	732
Exons	12358..12421, 12497..12571, 12802..12877, 12979..13165		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o4.ts	Method	TBLASTX:Soybean
Start	5790	End	6545
GI	none	Score	47
Exons	5790..5849, 5809..5844, 5940..6086, 5940..6086, 5941..6087, 5942..6088, 6498..6545		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o1.tm	Method	TBLASTX:Maize
Start	5801	End	12555
GI	none	Score	54
Exons	5801..5845, 5805..5852, 5805..5849, 5929..6087, 5935..6087, 5940..6089, 5942..6088, 6496..6567, 6498..6566, 6640..6792, 6645..6803, 6645..6803, 6701..6814, 7123..7296, 7123..7296, 7385..7495, 7390..7494, 7391..7495, 7733..8017, 7734..7853, 7737..8024, 7742..8026, 7914..8042, 8098..8229, 8099..8242, 8099..8245, 8816..8911, 8818..8901, 10710..10796, 10711..10797, 10711..10797, 11111..11188, 11111..11200, 11113..11202, 12016..12144, 12048..12149, 12232..12399, 12234..12401, 12268..12402, 12493..12555, 12497..12550, 12498..12554		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o1.tc	Method	TBLASTX:Cress
Start	5815	End	12535
GI	none	Score	36
Exons	5815..5844, 5930..6088, 5940..6086, 5942..6088, 6498..6566, 6645..6803, 6646..6804, 7121..7207, 7123..7296, 7124..7228, 7229..7300, 7385..7495, 7390..7494, 7391..7495, 7733..8017, 7734..7853, 7742..8026, 7914..8042, 8099..8251, 8100..8189, 8144..8242, 10710..10796, 11111..11194, 12051..12149, 12054..12143, 12234..12401, 12235..12402, 12497..12535		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o1.ts	Method	TBLASTX:Soybean
Start	6546	End	8158
GI	none	Score	184
Exons	6546..6566, 6631..6786, 6645..6803, 6646..6792, 6651..6806, 7123..7296, 7123..7296, 7124..7336, 7358..7477, 7390..7467, 7462..7494, 7463..7495, 7733..8017, 7734..8042, 7734..8018, 8099..8158		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
----------	-------	---------	---------------------

Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o1.tw	Method	TBLASTX:Wheat
Start	7385	End	7969
GI	none	Score	100
Exons	7385..7489, 7390..7494, 7399..7494, 7733..7969, 7733..7966		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o7.ts	Method	TBLASTX:Soybean
Start	8159	End	12535
GI	none	Score	71
Exons	8159..8245, 8806..8871, 10710..10796, 10711..10797, 11111..11194, 12049..12144, 12051..12149, 12234..12401, 12497..12535		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o6.tm	Method	TBLASTX:Maize
Start	13434	End	14542
GI	none	Score	76
Exons	13434..13517, 13435..13491, 13598..13690, 13625..13690, 13635..13703, 13641..13700, 13779..13874, 13797..13841, 13804..13875, 13807..13875, 13841..13885, 13992..14042, 14265..14363, 14272..14364, 14273..14362, 14445..14540, 14445..14531, 14447..14542, 14447..14533		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o8.ts	Method	TBLASTX:Soybean
Start	13638	End	15825
GI	none	Score	58
Exons	13638..13703, 13649..13690, 13804..13875, 13807..13875, 14279..14362, 14284..14364, 14445..14540, 14447..14533, 14807..14962, 14808..14972, 15712..15825		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o3.ts	Method	TBLASTX:Soybean
Start	15826	End	17757
GI	none	Score	105
Exons	15826..15891, 15828..15890, 16078..16158, 16483..16539, 16742..16984, 16807..16995, 16853..16996, 16887..16997, 16888..16998, 16908..17000, 17605..17757, 17606..17752, 17610..17756		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o3.tm	Method	TBLASTX:Maize
Start	16766	End	19446
GI	none	Score	335
Exons	16766..16987, 16770..16841, 16847..16993, 16887..16997,		

17605..17820, 17610..17816, 18010..18117, 18012..18122,  
18013..18117, 18527..18673, 18530..18676, 18583..18675,  
18826..18939, 18827..18964, 18828..18950, 19308..19445,  
19321..19446

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o6.ts	Method	TBLASTX:Soybean
Start	18523	End	19508
GI	none	Score	204
Exons	18523..18675, 18524..18676, 18530..18676, 18827..18973, 18828..18950, 18837..18992, 19308..19508, 19321..19500		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o2.tm	Method	TBLASTX:Maize
Start	21684	End	23989
GI	none	Score	81
Exons	21684..21743, 21684..21740, 21845..21907, 21853..21927, 21855..21929, 22027..22068, 22033..22248, 22035..22232, 22310..22396, 22311..22397, 22570..22623, 22571..22627, 22720..22764, 22723..22764, 23759..23848, 23766..23831, 23921..23989, 23929..23988		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o2.ts	Method	TBLASTX:Soybean
Start	21689	End	24344
GI	none	Score	55
Exons	21689..21739, 21696..21743, 21853..21927, 21855..21929, 22032..22124, 22033..22131, 22180..22248, 22182..22223, 22310..22387, 22311..22397, 22313..22396, 22571..22624, 23765..23839, 23921..24031, 23932..24030, 23946..24035, 24114..24191, 24120..24176, 24264..24344		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o2.tc	Method	TBLASTX:Cress
Start	21693	End	22397
GI	none	Score	62
Exons	21693..21743, 21698..21736, 21852..21929, 21853..21927, 22033..22131, 22035..22124, 22179..22223, 22180..22248, 22311..22397, 22311..22394, 22313..22396		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o2.tw	Method	TBLASTX:Wheat
Start	22194	End	24031
GI	none	Score	55
Exons	22194..22223, 22195..22248, 22199..22225, 22308..22394, 22310..22396, 22311..22397, 22570..22620, 22570..22626, 22723..22767, 22726..22767, 23759..23848, 23765..23851,		

23914..24030, 23921..24031

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o5.np	Method	AAT/NAP
Start	22684	End	32556
GI	452517	Score	121
Exons	22684..22756, 25127..25183, 29556..29693, 29781..29933, 30161..30330, 30545..30619, 31244..31336, 31407..31485, 31728..31830, 31861..31894, 32006..32089, 32538..32556		
GI Descrip.	(D26361) KIAA0042 [Homo sapiens]		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o7.tm	Method	TBLASTX:Maize
Start	23989	End	24373
GI	none	Score	86
Exons	23989..24027, 23990..24031, 24076..24171, 24120..24176, 24263..24367, 24264..24350, 24274..24369, 24275..24373		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o4.tm	Method	TBLASTX:Maize
Start	25549	End	26292
GI	none	Score	206
Exons	25549..25686, 25549..25698, 25940..26131, 25945..26133, 25945..26130, 26209..26286, 26218..26292, 26219..26290		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o5.ts	Method	TBLASTX:Soybean
Start	26218	End	26451
GI	none	Score	192
Exons	26218..26313, 26219..26362, 26225..26350, 26229..26354, 26363..26449, 26380..26451		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o8.tm	Method	TBLASTX:Maize
Start	26294	End	26467
GI	none	Score	135
Exons	26294..26389, 26383..26466, 26390..26467, 26393..26467		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o4.np	Method	AAT/NAP
Start	27218	End	29613
GI	4938504	Score	818
Exons	27218..27475, 27585..28309, 28407..28512, 28663..29499, 29570..29613		
GI Descrip.	(AL078465) putative protein [Arabidopsis thaliana]		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o5.gs	Method	GENSCAN
Start	27227	End	32539
GI	none	Score	.87
Exons	27227..27475, 27585..28334, 28414..28512, 28585..29499, 29570..29699, 29787..29933, 30161..30306, 30524..30619, 31244..31336, 31425..31478, 31620..31792, 32006..32089, 32167..32539		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o5.tm	Method	TBLASTX:Maize
Start	27832	End	28845
GI	none	Score	182
Exons	27832..28032, 27834..28040, 27834..28067, 28732..28779, 28732..28764, 28774..28845, 28775..28843, 28777..28845		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o10.tm	Method	TBLASTX:Maize
Start	28067	End	28470
GI	none	Score	136
Exons	28067..28225, 28068..28229, 28068..28247, 28303..28332, 28396..28470, 28416..28457		

Seq. No.	37850	Seq. ID	OJ990729_01.0114.C3
Gene No.	77819	Strand	-
Start	22684	End	32556
Name	OJ990729_01.0114.C3.o9.tm	Method	TBLASTX:Maize
Start	29828	End	31674
GI	none	Score	47
Exons	29828..29863, 29829..29861, 29864..29941, 29867..29932, 30157..30222, 30160..30222, 30211..30309, 30226..30345, 30522..30620, 30524..30625, 30525..30620, 31233..31337, 31234..31338, 31244..31336, 31413..31481, 31422..31484, 31424..31483, 31608..31673, 31609..31674		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77820	Strand	+
Start	31	End	7444
Name	OJ990729_01.0114.C4.o1.gs	Method	GENSCAN
Start	31	End	7444
GI	none	Score	.61
Exons	31..41, 740..1104, 1734..1773, 1812..1926, 4135..4290, 4801..4974, 5342..5434, 6848..7178, 7350..7444		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77821	Strand	+
Start	7670	End	16355
Name	OJ990729_01.0114.C4.o2.gs	Method	GENSCAN
Start	7670	End	16355
GI	none	Score	.45

Exons 7670..9789, 10449..10533, 10744..10900, 13215..13249,  
14842..15402, 15408..15845, 15888..16355

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77821	Strand	+
Start	7670	End	16355
Name	OJ990729_01.0114.C4.o1.np	Method	AAT/NAP
Start	10449	End	11176
GI	6069646	Score	663
Exons	10449..11176		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o1.tw	Method	TBLASTX:Wheat
Start	4053	End	4242
GI	none	Score	58
Exons	4053..4154, 4053..4241, 4054..4242, 4102..4242, 4157..4213		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o2.tm	Method	TBLASTX:Maize
Start	4053	End	4243
GI	none	Score	195
Exons	4053..4241, 4054..4242, 4102..4242, 4109..4243		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o4.np	Method	AAT/NAP
Start	6618	End	19607
GI	6433960	Score	56
Exons	6618..6737, 7566..7681, 8042..8100, 15232..15280, 19508..19607		
GI Descrip.	(Y19185) aczonin [Mus musculus]		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o1.tm	Method	TBLASTX:Maize
Start	10705	End	10917
GI	none	Score	205
Exons	10705..10917, 10752..10877		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o2.tw	Method	TBLASTX:Wheat
Start	10719	End	10920
GI	none	Score	179
Exons	10719..10910, 10720..10920		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o2.np	Method	AAT/NAP
Start	12089	End	17040
GI	2586082	Score	100
Exons	12089..12286, 12327..12748, 14861..14931, 17013..17040		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	37851	Seq. ID	OJ990729_01.0114.C4
Gene No.	77822	Strand	-
Start	6618	End	19607
Name	OJ990729_01.0114.C4.o5.np	Method	AAT/NAP
Start	17347	End	18640
GI	4680492	Score	595
Exons	17347..17796, 18140..18640		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	37852	Seq. ID	OJ990729_01.0114.C5
Gene No.	77823	Strand	+
Start	6951	End	13696
Name	OJ990729_01.0114.C5.o2.np	Method	AAT/NAP
Start	6951	End	13538
GI	6063557	Score	253
Exons	6951..6987, 9934..10097, 10345..10580, 13508..13538		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	37852	Seq. ID	OJ990729_01.0114.C5
Gene No.	77823	Strand	+
Start	6951	End	13696
Name	OJ990729_01.0114.C5.o3.np	Method	AAT/NAP
Start	12715	End	13013
GI	4262176	Score	116
Exons	12715..13013		
GI Descrip.	(AC005508) 18857 [Arabidopsis thaliana]		

Seq. No.	37852	Seq. ID	OJ990729_01.0114.C5
Gene No.	77823	Strand	+
Start	6951	End	13696
Name	OJ990729_01.0114.C5.o4.gs	Method	GENSCAN
Start	12734	End	13696
GI	none	Score	.83
Exons	12734..13696		

Seq. No.	37852	Seq. ID	OJ990729_01.0114.C5
Gene No.	77824	Strand	-
Start	1172	End	10194
Name	OJ990729_01.0114.C5.o1.np	Method	AAT/NAP
Start	1172	End	10194
GI	5091513	Score	1185
Exons	1172..1298, 3841..4187, 4341..4547, 5309..6016, 6765..7492, 10155..10194		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	37852	Seq. ID	OJ990729_01.0114.C5
Gene No.	77824	Strand	-
Start	1172	End	10194

Name	OJ990729_01.0114.C5.o2.gs	Method	GENSCAN
Start	4031	End	4453
GI	none	Score	.79
Exons	4031..4224, 4366..4453		

Seq. No.	37853	Seq. ID	OJ990729_01.0114.C6
Gene No.	77825	Strand	+
Start	104	End	507
Name	OJ990729_01.0114.C6.o1.gs	Method	GENSCAN
Start	104	End	507
GI	none	Score	.8
Exons	104..507		

Seq. No.	37853	Seq. ID	OJ990729_01.0114.C6
Gene No.	77826	Strand	-
Start	1615	End	1734
Name	OJ990729_01.0114.C6.o2.gs	Method	GENSCAN
Start	1615	End	1734
GI	none	Score	.6
Exons	1615..1734		

Seq. No.	37854	Seq. ID	OJ990729_01.0114.C7
Gene No.	77827	Strand	+
Start	2362	End	7464
Name	OJ990729_01.0114.C7.o3.gs	Method	GENSCAN
Start	2362	End	7464
GI	none	Score	.48
Exons	2362..3754, 5744..5916, 6218..6758, 7295..7464		

Seq. No.	37854	Seq. ID	OJ990729_01.0114.C7
Gene No.	77828	Strand	-
Start	101	End	262
Name	OJ990729_01.0114.C7.o1.gs	Method	GENSCAN
Start	101	End	262
GI	none	Score	.52
Exons	101..262		

Seq. No.	37854	Seq. ID	OJ990729_01.0114.C7
Gene No.	77829	Strand	-
Start	459	End	2035
Name	OJ990729_01.0114.C7.o2.gs	Method	GENSCAN
Start	459	End	2035
GI	none	Score	.82
Exons	459..741, 1251..1511, 1926..2035		

Seq. No.	37854	Seq. ID	OJ990729_01.0114.C7
Gene No.	77830	Strand	-
Start	9769	End	10015
Name	OJ990729_01.0114.C7.o1.tm	Method	TBLASTX:Maize
Start	3441	End	5897
GI	none	Score	115
Exons	3441..3596, 3445..3597, 3491..3664, 3577..3789, 3586..3756, 5704..5856, 5741..5860, 5741..5863, 5745..5897, 5746..5874		

Seq. No.	37854	Seq. ID	OJ990729_01.0114.C7
Gene No.	77830	Strand	-
Start	9769	End	10015



Name	OJ990729_01.0114.C7.o4.gs	Method	GENSCAN
Start	9769	End	10015
GI	none	Score	.57
Exons	9769..9940, 9969..10015		

Seq. No.	37855	Seq. ID	OJ990729_01.0114.C8
Gene No.	77831	Strand	-
Start	1	End	703
Name	OJ990729_01.0114.C8.o1.np	Method	AAT/NAP
Start	1	End	703
GI	5091513	Score	303
Exons	1..703		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	37856	Seq. ID	OJ991109_11.0207.C2
Gene No.	77832	Strand	-
Start	8	End	252
Name	OJ991109_11.0207.C2.o1.gs	Method	GENSCAN
Start	8	End	252
GI	none	Score	.84
Exons	8..252		

Seq. No.	37857	Seq. ID	OJ991109_11.0207.C3
Gene No.	77833	Strand	-
Start	10	End	420
Name	OJ991109_11.0207.C3.o1.gs	Method	GENSCAN
Start	10	End	420
GI	none	Score	.8
Exons	10..420		

Seq. No.	37858	Seq. ID	OJ991109_11.0207.C5
Gene No.	77834	Strand	-
Start	6900	End	9496
Name	OJ991109_11.0207.C5.o1.gp	Method	AAT/GAP
Start	6900	End	7398
GI	none	Score	982
Exons	6900..7398		

Seq. No.	37858	Seq. ID	OJ991109_11.0207.C5
Gene No.	77834	Strand	-
Start	6900	End	9496
Name	OJ991109_11.0207.C5.o1.np	Method	AAT/NAP
Start	6972	End	9496
GI	5832750	Score	123
Exons	6972..7033, 7944..8123, 8887..9183, 9282..9341, 9432..9496		

GI Descrip. (Z50070) similar to poly (A) polymerase; cDNA EST yk484e9.3 comes from this gene [Caenorhabditis elegans].  
gi|6425432|emb|CAB60582.1| (AL032651) similar to poly (A) polymerase; cDNA EST yk484e9.3 comes from this gene [Caenorhabditis elegans]

Seq. No.	37858	Seq. ID	OJ991109_11.0207.C5
Gene No.	77834	Strand	-
Start	6900	End	9496
Name	OJ991109_11.0207.C5.o1.tm	Method	TBLASTX:Maize
Start	7667	End	9353
GI	none	Score	237

Exons 7667..7879, 7667..7816, 7669..7881, 7764..7892, 7956..8117, 7957..8118, 7961..8143, 7979..8125, 8866..9021, 8885..9007, 8887..9015, 9016..9183, 9022..9186, 9268..9348, 9272..9349, 9273..9353

Seq. No.	37859	Seq. ID	OJ991109_11.0207.C6
Gene No.	77835	Strand	-
Start	967	End	2977
Name	OJ991109_11.0207.C6.o1.gs	Method	GENSCAN
Start	967	End	2977
GI	none	Score	.74
Exons	967..1167, 2341..2439, 2529..2606, 2717..2977		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77836	Strand	+
Start	855	End	7887
Name	OJ991109_11.0207.C7.o1.gs	Method	GENSCAN
Start	855	End	7887
GI	none	Score	.65
Exons	855..1038, 1270..1362, 1795..1990, 2224..2405, 2428..2595, 2678..2873, 3392..3584, 3677..3856, 4084..4236, 4318..4500, 4638..4859, 5059..5175, 5307..5450, 5823..5924, 6387..6455, 6908..7105, 7416..7754, 7882..7887		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77836	Strand	+
Start	855	End	7887
Name	OJ991109_11.0207.C7.o1.np	Method	AAT/NAP
Start	2781	End	7102
GI	1073820	Score	1126
Exons	2781..2902, 3706..3856, 4022..4236, 4318..4500, 4638..4859, 5059..5175, 5307..5450, 5823..5924, 6387..6455, 6908..7102		
GI Descrip.	adenylosuccinate lyase (purB) homolog - Haemophilus influenzae (strain Rd KW20)		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77836	Strand	+
Start	855	End	7887
Name	OJ991109_11.0207.C7.o1.gp	Method	AAT/GAP
Start	4182	End	4739
GI	uC-osflM202097d03b1	Score	636
Exons	4182..4236, 4318..4500, 4638..4739		
GI Descrip.	'2832649/emb CAA16724  6.0e-37 (AL021710) adenylosuccinate lyase - like protein [Arabidopsis thaliana]'		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77837	Strand	+
Start	12692	End	13587
Name	OJ991109_11.0207.C7.o3.gs	Method	GENSCAN
Start	12692	End	13587
GI	none	Score	.65
Exons	12692..12881, 13466..13587		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77838	Strand	+
Start	20347	End	21150
Name	OJ991109_11.0207.C7.o5.gs	Method	GENSCAN

Start 20347  
GI none  
Exons 20347..20406, 21031..21150

End 21150  
Score .76

Seq. No. 37860  
Gene No. 77839  
Start 10627  
Name OJ991109\_11.0207.C7.o4.tm  
Start 3537  
GI none  
Exons 3537..3578, 3682..3855, 3683..3868, 3691..3882, 4020..4091, 4081..4128

Seq. ID OJ991109\_11.0207.C7  
Strand -  
End 18640  
Method TBLASTX:Maize  
End 4128  
Score 54

Seq. No. 37860  
Gene No. 77839  
Start 10627  
Name OJ991109\_11.0207.C7.o1.ts  
Start 4049  
GI none  
Exons 4049..4081, 4086..4238, 4087..4245, 4315..4422, 4317..4421

Seq. ID OJ991109\_11.0207.C7  
Strand -  
End 18640  
Method TBLASTX:Soybean  
End 4422  
Score 39

Seq. No. 37860  
Gene No. 77839  
Start 10627  
Name OJ991109\_11.0207.C7.o1.tm  
Start 4131  
GI none  
Exons 4131..4241, 4132..4245, 4132..4281, 4265..4495, 4314..4511, 4315..4512, 4317..4517, 4636..4860, 4636..4854, 4637..4855, 4638..4862, 5047..5142, 5058..5141

Seq. ID OJ991109\_11.0207.C7  
Strand -  
End 18640  
Method TBLASTX:Maize  
End 5142  
Score 112

Seq. No. 37860  
Gene No. 77839  
Start 10627  
Name OJ991109\_11.0207.C7.o1.tc  
Start 4420  
GI none  
Exons 4420..4512, 4473..4511, 4591..4680, 4635..4679, 4637..4849, 4637..4855, 4638..4862, 4731..4862, 5047..5130, 5058..5123, 5124..5180, 5125..5175, 5304..5390, 5306..5398

Seq. ID OJ991109\_11.0207.C7  
Strand -  
End 18640  
Method TBLASTX:Cress  
End 5398  
Score 65

Seq. No. 37860  
Gene No. 77839  
Start 10627  
Name OJ991109\_11.0207.C7.o2.ts  
Start 4429  
GI none  
Exons 4429..4512, 4636..4851, 4637..4852, 4638..4862, 5047..5154, 5058..5153

Seq. ID OJ991109\_11.0207.C7  
Strand -  
End 18640  
Method TBLASTX:Soybean  
End 5154  
Score 89

Seq. No. 37860  
Gene No. 77839  
Start 10627  
Name OJ991109\_11.0207.C7.o5.tm  
Start 5143  
GI none  
Exons 5143..5178, 5304..5450, 5306..5449, 5777..5923, 5807..5926,

Seq. ID OJ991109\_11.0207.C7  
Strand -  
End 18640  
Method TBLASTX:Maize  
End 5931  
Score 63

5808..5927, 5820..5927, 5821..5931

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77839	Strand	-
Start	10627	End	18640
Name	OJ991109_11.0207.C7.o3.ts	Method	TBLASTX:Soybean
Start	5155	End	6982
GI	none	Score	37
Exons	5155..5175, 5302..5439, 5304..5450, 5306..5449, 5807..5926, 5808..5927, 6387..6455, 6911..6982		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77839	Strand	-
Start	10627	End	18640
Name	OJ991109_11.0207.C7.o2.tm	Method	TBLASTX:Maize
Start	6384	End	7160
GI	none	Score	80
Exons	6384..6458, 6386..6457, 6387..6458, 6885..7016, 6907..7146, 6908..7150, 6910..7158, 7077..7160		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77839	Strand	-
Start	10627	End	18640
Name	OJ991109_11.0207.C7.o3.tm	Method	TBLASTX:Maize
Start	10578	End	10877
GI	none	Score	275
Exons	10578..10877, 10610..10756, 10826..10876		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77839	Strand	-
Start	10627	End	18640
Name	OJ991109_11.0207.C7.o2.np	Method	AAT/NAP
Start	10627	End	17281
GI	103283	Score	55
Exons	10627..10797, 14862..15147, 17253..17281		
GI Descrip.	nuclear phosphoprotein SRp55 - fruit fly (Drosophila melanogaster) gi 8497 emb CAA41556  (X58720) SRp55 [Drosophila melanogaster]		

Seq. No.	37860	Seq. ID	OJ991109_11.0207.C7
Gene No.	77839	Strand	-
Start	10627	End	18640
Name	OJ991109_11.0207.C7.o4.gs	Method	GENSCAN
Start	14394	End	18640
GI	none	Score	.51
Exons	14394..14563, 14727..14887, 15960..16236, 16970..16973, 17055..17427, 18483..18640		

Seq. No.	37861	Seq. ID	OJ991109_11.0207.C8
Gene No.	77840	Strand	+
Start	50	End	486
Name	OJ991109_11.0207.C8.o1.gs	Method	GENSCAN
Start	50	End	486
GI	none	Score	.96
Exons	50..156, 369..486		

Seq. No.	37861	Seq. ID	OJ991109_11.0207.C8
----------	-------	---------	---------------------

Gene No.	77841	Strand	+
Start	2733	End	3538
Name	OJ991109_11.0207.C8.o2.gs	Method	GENSCAN
Start	2733	End	3538
GI	none	Score	.67
Exons	2733..2821, 3221..3365, 3459..3538		
Seq. No.	37861	Seq. ID	OJ991109_11.0207.C8
Gene No.	77842	Strand	+
Start	3713	End	3787
Name	OJ991109_11.0207.C8.o2.gp	Method	AAT/GAP
Start	3713	End	3787
GI	LIB3477-004-P1-K1-C9	Score	126
Exons	3713..3787		
GI Descrip.	'3913425/sp O22899 DD15_ARATH 1.0e-35 PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE >gi 2275203 (AC002337) RNA helicase isolog [Arabidopsis thaliana]'		
Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77843	Strand	+
Start	1	End	3292
Name	OJ991109_11.0207.C9.o1.np	Method	AAT/NAP
Start	1	End	2713
GI	3913425	Score	2807
Exons	1..253, 397..1481, 1859..1984, 2063..2301, 2384..2502, 2590..2713		
GI Descrip.	PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE gi 2275203 gb AAB63825.1  (AC002337) putative pre-mRNA splicing factor RNA helicase [Arabidopsis thaliana]		
Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77843	Strand	+
Start	1	End	3292
Name	OJ991109_11.0207.C9.o1.gp	Method	AAT/GAP
Start	62	End	158
GI	LIB3477-004-P1-K1-C9	Score	158
Exons	62..158		
GI Descrip.	'3913425/sp O22899 DD15_ARATH 1.0e-35 PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE >gi 2275203 (AC002337) RNA helicase isolog [Arabidopsis thaliana]'		
Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77843	Strand	+
Start	1	End	3292
Name	OJ991109_11.0207.C9.o1.gs	Method	GENSCAN
Start	66	End	3292
GI	none	Score	.9
Exons	66..253, 397..1481, 1859..1984, 2063..2301, 2384..2502, 2739..2845, 3216..3292		
Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77843	Strand	+
Start	1	End	3292
Name	OJ991109_11.0207.C9.o2.gp	Method	AAT/GAP
Start	1085	End	2200
GI	9564_2.R1084	Score	1250
Exons	1085..1481, 1859..1984, 2063..2200		

GI Descrip. '3913425/sp|O22899|DD15 ARATH 1.0e-113 PUTATIVE PRE-MRNA  
SPLICING FACTOR ATP-DEPENDENT RNA HELICASE >gi\_2275203  
(AC002337) RNA helicase isolog [Arabidopsis thaliana]'

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77844	Strand	-
Start	2615	End	3120
Name	OJ991109_11.0207.C9.o3.gp	Method	AAT/GAP
Start	2615	End	3120
GI	none	Score	909
Exons	2615..3120		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o1.tc	Method	TBLASTX:Cress
Start	81	End	2509
GI	none	Score	121
Exons	81..254, 83..283, 292..594, 347..901, 392..922, 631..906, 929..1477, 938..1156, 940..1293, 1360..1428, 1864..1977, 2077..2193, 2206..2301, 2402..2509		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o4.tm	Method	TBLASTX:Maize
Start	391	End	571
GI	none	Score	198
Exons	391..561, 392..571		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o5.ts	Method	TBLASTX:Soybean
Start	415	End	649
GI	none	Score	374
Exons	415..648, 416..649, 416..649		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o1.tm	Method	TBLASTX:Maize
Start	572	End	2720
GI	none	Score	1507
Exons	572..1480, 572..1480, 891..1484, 1120..1485, 1728..1883, 1746..1769, 1761..1985, 1783..1989, 1784..1987, 2056..2094, 2062..2304, 2064..2303, 2360..2515, 2381..2509, 2383..2514, 2416..2520, 2588..2716, 2589..2720, 2591..2677		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o1.ts	Method	TBLASTX:Soybean
Start	650	End	1081
GI	none	Score	690
Exons	650..1081, 650..1075, 652..1080		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o3.ts	Method	TBLASTX:Soybean
Start	1082	End	1467
GI	none	Score	626
Exons	1082..1465, 1088..1462, 1089..1463, 1126..1467		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o4.ts	Method	TBLASTX:Soybean
Start	1738	End	2775
GI	none	Score	63
Exons	1738..1989, 1739..1819, 1744..1869, 1773..1883, 1847..1918, 1849..1983, 2106..2303, 2107..2304, 2360..2509, 2383..2508, 2588..2689, 2591..2677, 2722..2775		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o2.tm	Method	TBLASTX:Maize
Start	4073	End	6122
GI	none	Score	211
Exons	4073..4141, 4210..4395, 4216..4395, 4230..4406, 4467..4571, 4471..4578, 4472..4573, 4474..4578, 4669..4728, 4670..4726, 4671..4739, 4823..4894, 4831..4896, 4834..4899, 4986..5075, 4988..5089, 4988..5092, 5157..5243, 5162..5245, 5174..5245, 5513..5647, 5514..5648, 5514..5648, 5720..5809, 5721..5810, 5733..5810, 5792..5980, 5811..5978, 5817..5981, 5818..5988, 6054..6122, 6054..6122		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o2.gs	Method	GENSCAN
Start	4236	End	8949
GI	none	Score	.82
Exons	4236..4394, 4670..4726, 5159..5245, 5516..5631, 5722..5977, 6057..6206, 6644..6802, 7152..7176, 7303..7437, 8224..8322, 8327..8378, 8708..8783, 8881..8949		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o2.tw	Method	TBLASTX:Wheat
Start	4248	End	5016
GI	none	Score	94
Exons	4248..4418, 4264..4401, 4467..4571, 4483..4578, 4489..4578, 4669..4728, 4670..4741, 4831..4896, 4843..4896, 4989..5015, 4990..5016		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o3.tc	Method	TBLASTX:Cress
Start	4248	End	5578

GI	none	Score	117
Exons	4248..4406, 4467..4571, 4471..4578, 4477..4587, 4669..4728, 4831..4896, 4986..5081, 4987..5076, 5513..5578, 5513..5578		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o2.ts	Method	TBLASTX:Soybean
Start	4359	End	6120
GI	none	Score	68
Exons	4359..4406, 4467..4571, 4470..4562, 4471..4578, 4669..4794, 4670..4741, 4826..4900, 4831..4896, 4986..5072, 4987..5073, 5156..5245, 5513..5647, 5514..5648, 5514..5660, 5720..5980, 5721..5978, 5737..5979, 5931..5981, 6054..6119, 6054..6119, 6058..6120		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o2.np	Method	AAT/NAP
Start	5108	End	6745
GI	3128234	Score	776
Exons	5108..5245, 5674..5977, 6057..6206, 6644..6745		
GI Descrip.	(AC004077) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o1.tw	Method	TBLASTX:Wheat
Start	5513	End	5828
GI	none	Score	139
Exons	5513..5623, 5514..5624, 5720..5827, 5721..5828		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o2.tc	Method	TBLASTX:Cress
Start	5579	End	6183
GI	none	Score	77
Exons	5579..5644, 5580..5645, 5717..5824, 5720..5839, 5721..5846, 5838..5981, 5840..5980, 5854..5985, 6054..6170, 6054..6182, 6061..6183		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o4.gp	Method	AAT/GAP
Start	5741	End	6763
GI	13350_1.R1084	Score	927
Exons	5741..5977, 6057..6206, 6644..6763		
GI Descrip.	'3128234 6.0e-81 (AC004077) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o6.ts	Method	TBLASTX:Soybean



Start	6120	End	7762
GI	none	Score	101
Exons	6120..6212, 6121..6207, 6123..6212, 6632..6805, 6633..6755, 6886..6921, 7002..7073, 7009..7071, 7688..7762		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o3.tm	Method	TBLASTX:Maize
Start	6123	End	7055
GI	none	Score	114
Exons	6123..6212, 6123..6212, 6600..6800, 6632..6805, 7002..7055		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o4.tc	Method	TBLASTX:Cress
Start	6650	End	7073
GI	none	Score	86
Exons	6650..6805, 6651..6833, 6654..6755, 6736..6804, 7002..7073, 7003..7071		

Seq. No.	37862	Seq. ID	OJ991109_11.0207.C9
Gene No.	77845	Strand	-
Start	4236	End	9043
Name	OJ991109_11.0207.C9.o5.gp	Method	AAT/GAP
Start	7134	End	9043
GI	2310941	Score	771
Exons	7134..7207, 7303..7440, 7668..7759, 8881..9043		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77846	Strand	+
Start	1356	End	1511
Name	OJ991109_11.0207.C10.o1.gs	Method	GENSCAN
Start	1356	End	1511
GI	none	Score	.67
Exons	1356..1511		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+
Start	3689	End	5761
Name	OJ991109_11.0207.C10.o1.np	Method	AAT/NAP
Start	3351	End	5761
GI	4544450	Score	856
Exons	3351..3494, 3686..4225, 4412..5761		

GI-Descrip. (AC006592) hypothetical protein [Arabidopsis thaliana]

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+
Start	3689	End	5761
Name	OJ991109_11.0207.C10.o2.gs	Method	GENSCAN
Start	3689	End	5402
GI	none	Score	.47
Exons	3689..5402		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+

Start	3689	End	5761
Name	OJ991109_11.0207.C10.o1.tc	Method	TBLASTX:Cress
Start	3989	End	5389
GI	none	Score	132
Exons	3989..4222, 3992..4381, 4051..4275, 4175..4780, 4295..4450, 4304..4402, 4321..4467, 4531..4665, 4535..5287, 4607..4762, 4750..4848, 4877..5158, 4946..5206, 4993..5265, 5288..5389, 5300..5389		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+
Start	3689	End	5761
Name	OJ991109_11.0207.C10.o2.ts	Method	TBLASTX:Soybean
Start	3989	End	5170
GI	none	Score	133
Exons	3989..4273, 4298..4486, 4601..4762, 4652..4903, 4717..4896, 4790..5170, 4864..5121		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+
Start	3689	End	5761
Name	OJ991109_11.0207.C10.o1.tm	Method	TBLASTX:Maize
Start	3989	End	5319
GI	none	Score	110
Exons	3989..4174, 4075..4212, 4076..4381, 4205..4663, 4558..5082, 4559..5083, 4559..5086, 5000..5164, 5003..5158, 5068..5106, 5070..5105, 5074..5109, 5180..5248, 5302..5319		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+
Start	3689	End	5761
Name	OJ991109_11.0207.C10.o1.tw	Method	TBLASTX:Wheat
Start	3989	End	5308
GI	none	Score	135
Exons	3989..4279, 4000..4185, 4298..4462, 4327..4461, 4494..4526, 4541..4762, 4697..4942, 4723..4938, 4831..5175, 4832..5269, 5165..5275, 5179..5244, 5180..5308		

Seq. No.	37863	Seq. ID	OJ991109_11.0207.C10
Gene No.	77847	Strand	+
Start	3689	End	5761
Name	OJ991109_11.0207.C10.o1.ts	Method	TBLASTX:Soybean
Start	5177	End	5464
GI	none	Score	283
Exons	5177..5464, 5179..5412, 5255..5464		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77848	Strand	+
Start	1	End	4917
Name	OJ991109_11.0207.C12.o1.np	Method	AAT/NAP
Start	1	End	4917
GI	2129537	Score	506
Exons	1..87, 2405..2502, 2957..3030, 3132..3182, 3269..3345, 3741..4093, 4856..4917		

GI Descrip. AP2 domain-containing protein - Arabidopsis thaliana gi|1209099 (U40256) AINTEGUMENTA [Arabidopsis thaliana] gi|1244708 (U41339) ANT [Arabidopsis thaliana] gi|4490720|emb|CAB38923.1| (AL035709)

ovule development protein aintegumenta (ANT) [Arabidopsis thaliana]

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77848	Strand	+
Start	1	End	4917
Name	OJ991109_11.0207.C12.o1.gs	Method	GENSCAN
Start	237	End	4234
GI	none	Score	.97
Exons	237..319, 2038..2096, 2414..2502, 2957..3030, 3269..3345, 3741..4234		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77849	Strand	+
Start	8461	End	13367
Name	OJ991109_11.0207.C12.o3.gs	Method	GENSCAN
Start	8461	End	13367
GI	none	Score	.45
Exons	8461..8464, 8726..8881, 8922..9111, 10110..10328, 10330..10478, 11879..11969, 12715..13064, 13138..13367		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77850	Strand	+
Start	17156	End	20433
Name	OJ991109_11.0207.C12.o5.gs	Method	GENSCAN
Start	17156	End	20433
GI	none	Score	.69
Exons	17156..17311, 17481..17492, 17636..17767, 17986..18036, 18123..18641, 19888..20433		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77851	Strand	+
Start	22962	End	23296
Name	OJ991109_11.0207.C12.o6.gs	Method	GENSCAN
Start	22962	End	23296
GI	none	Score	.77
Exons	22962..23095, 23134..23296		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77852	Strand	+
Start	24080	End	24472
Name	OJ991109_11.0207.C12.o3.np	Method	AAT/NAP
Start	24014	End	24425
GI	3643271	Score	296
Exons	24014..24425		

GI Descrip. (AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590  
(AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681  
(AF097724) 33 kDa secretory protein [Oryza sativa]

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77852	Strand	+
Start	24080	End	24472
Name	OJ991109_11.0207.C12.o7.gs	Method	GENSCAN
Start	24080	End	24472
GI	none	Score	.96
Exons	24080..24472		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77853	Strand	-
Start	4637	End	7758
Name	OJ991109_11.0207.C12.o2.gs	Method	GENSCAN
Start	4637	End	7622
GI	none	Score	.99
Exons	4637..4731, 5099..5254, 7286..7622		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77853	Strand	-
Start	4637	End	7758
Name	OJ991109_11.0207.C12.o1.gp	Method	AAT/GAP
Start	4803	End	7403
GI	20117_1.R1084	Score	1057
Exons	4803..5254, 7286..7403		
GI Descrip.	'1915960/emb CAA68913  3.0e-30 (Y07636) peptidylprolyl isomerase [Triticum aestivum]'		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77853	Strand	-
Start	4637	End	7758
Name	OJ991109_11.0207.C12.o2.gp	Method	AAT/GAP
Start	7438	End	7758
GI	2311635	Score	606
Exons	7438..7758		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77854	Strand	-
Start	14196	End	17053
Name	OJ991109_11.0207.C12.o4.gs	Method	GENSCAN
Start	14196	End	17053
GI	none	Score	.68
Exons	14196..14475, 14567..14772, 15013..15303, 16149..16288, 16544..16718, 17036..17053		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77854	Strand	-
Start	14196	End	17053
Name	OJ991109_11.0207.C12.o2.np	Method	AAT/NAP
Start	14199	End	16622
GI	2894558	Score	1185
Exons	14199..14475, 14567..14772, 15013..15303, 15383..15434, 16180..16408, 16544..16622		
GI Descrip.	(AL021890) putative protein [Arabidopsis thaliana]		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77854	Strand	-
Start	14196	End	17053
Name	OJ991109_11.0207.C12.o3.gp	Method	AAT/GAP
Start	16272	End	16946
GI	2428147	Score	772
Exons	16272..16408, 16544..16667, 16772..16946		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o3.tc	Method	TBLASTX:Cress

Start	2	End	3871
GI	none	Score	97
Exons	2..79, 3..50, 2413..2499, 2413..2508, 2413..2502, 2960..3031, 3084..3182, 3121..3186, 3130..3183, 3255..3347, 3266..3349, 3267..3347, 3782..3871		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o3.ts	Method	TBLASTX:Soybean
Start	3	End	3868
GI	none	Score	106
Exons	3..53, 5..79, 2413..2508, 2413..2508, 2413..2499, 2963..3031, 3126..3182, 3130..3183, 3266..3322, 3266..3343, 3267..3344, 3732..3776, 3782..3868		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o4.tm	Method	TBLASTX:Maize
Start	2413	End	3847
GI	none	Score	82
Exons	2413..2508, 3129..3182, 3130..3183, 3266..3340, 3267..3344, 3758..3847, 3782..3847		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o2.tm	Method	TBLASTX:Maize
Start	4931	End	7622
GI	none	Score	165
Exons	4931..4969, 4982..5008, 5020..5184, 5058..5261, 5076..5261, 7287..7622, 7417..7557, 7500..7622		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o1.tc	Method	TBLASTX:Cress
Start	5113	End	7557
GI	none	Score	69
Exons	5113..5187, 5121..5261, 5142..5282, 7287..7556, 7288..7557		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o2.ts	Method	TBLASTX:Soybean
Start	5121	End	7613
GI	none	Score	71
Exons	5121..5264, 5153..5251, 5154..5261, 7287..7556, 7342..7557, 7497..7559, 7566..7613		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o1.tw	Method	TBLASTX:Wheat
Start	7362	End	7652
GI	none	Score	138

Exons 7362..7622, 7417..7557, 7497..7652

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o1.tm	Method	TBLASTX:Maize
Start	14444	End	16838
GI	none	Score	56
Exons	14444..14479, 14447..14476, 14559..14777, 14567..14773, 15013..15306, 15014..15304, 15022..15306, 15213..15314, 16179..16409, 16179..16409, 16180..16410, 16189..16410, 16529..16597, 16539..16658, 16540..16626, 16545..16634, 16635..16670, 16771..16836, 16772..16837, 16794..16838		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o1.ts	Method	TBLASTX:Soybean
Start	15013	End	16253
GI	none	Score	328
Exons	15013..15306, 15014..15304, 15054..15311, 16168..16242, 16179..16253		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o2.tc	Method	TBLASTX:Cress
Start	16185	End	16613
GI	none	Score	104
Exons	16185..16394, 16185..16409, 16186..16410, 16539..16613		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o3.tm	Method	TBLASTX:Maize
Start	18306	End	18574
GI	none	Score	210
Exons	18306..18563, 18306..18566, 18446..18574		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o5.tm	Method	TBLASTX:Maize
Start	24019	End	24367
GI	none	Score	63
Exons	24019..24111, 24066..24113, 24145..24246, 24161..24247, 24185..24367, 24241..24366		

Seq. No.	37864	Seq. ID	OJ991109_11.0207.C12
Gene No.	77855	Strand	-
Start	25668	End	25808
Name	OJ991109_11.0207.C12.o8.gs	Method	GENSCAN
Start	25668	End	25808
GI	none	Score	.88
Exons	25668..25808		

Seq. No.	37865	Seq. ID	OJ991109_11.0207.C13
----------	-------	---------	----------------------

Gene No.	77856	Strand	+
Start	1	End	1300
Name	OJ991109_11.0207.C13.o1.np	Method	AAT/NAP
Start	1	End	1300
GI	3643271	Score	466
Exons	1..31, 851..1300		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi 3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi 4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	37865	Seq. ID	OJ991109_11.0207.C13
Gene No.	77857	Strand	+
Start	7170	End	9170
Name	OJ991109_11.0207.C13.o4.gs	Method	GENSCAN
Start	7170	End	9170
GI	none	Score	.94
Exons	7170..7175, 7397..7564, 8189..8389, 9126..9170		

Seq. No.	37865	Seq. ID	OJ991109_11.0207.C13
Gene No.	77858	Strand	+
Start	13871	End	14083
Name	OJ991109_11.0207.C13.o2.np	Method	AAT/NAP
Start	13871	End	14083
GI	6069646	Score	126
Exons	13871..14083		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	37865	Seq. ID	OJ991109_11.0207.C13
Gene No.	77859	Strand	-
Start	11205	End	13795
Name	OJ991109_11.0207.C13.o5.gs	Method	GENSCAN
Start	11205	End	13795
GI	none	Score	.53
Exons	11205..11326, 11489..11629, 12161..12251, 13006..13075, 13554..13795		

Seq. No.	37865	Seq. ID	OJ991109_11.0207.C13
Gene No.	77860	Strand	-
Start	14285	End	14457
Name	OJ991109_11.0207.C13.o6.gs	Method	GENSCAN
Start	14285	End	14457
GI	none	Score	.67
Exons	14285..14457		

Seq. No.	37866	Seq. ID	OJ991109_11.0207.C14
Gene No.	77861	Strand	+
Start	1	End	5151
Name	OJ991109_11.0207.C14.o1.np	Method	AAT/NAP
Start	1	End	5151
GI	127749	Score	71
Exons	1..25, 869..1033, 1085..1233, 5127..5151		
GI Descrip.	MYOSIN IC HEAVY CHAIN gi 71609 pir  MWAXIC myosin heavy chain IC - Acanthamoeba castellanii gi 155625 (J02974) myosin IB heavy		

chain [Acanthamoeba castellanii]

Seq. No.	37866	Seq. ID	OJ991109_11.0207.C14
Gene No.	77861	Strand	+
Start	1	End	5151
Name	OJ991109_11.0207.C14.o1.gs	Method	GENSCAN
Start	324	End	579
GI	none	Score	.86
Exons	324..447, 464..579		

Seq. No.	37866	Seq. ID	OJ991109_11.0207.C14
Gene No.	77862	Strand	-
Start	3961	End	5029
Name	OJ991109_11.0207.C14.o2.gs	Method	GENSCAN
Start	3961	End	5029
GI	none	Score	.68
Exons	3961..4079, 4212..4485, 4952..5029		

Seq. No.	37866	Seq. ID	OJ991109_11.0207.C14
Gene No.	77863	Strand	-
Start	7016	End	7709
Name	OJ991109_11.0207.C14.o3.gs	Method	GENSCAN
Start	7016	End	7709
GI	none	Score	.72
Exons	7016..7074, 7514..7614, 7619..7709		

Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o1.np	Method	AAT/NAP
Start	1	End	1348
GI	4680203	Score	1130
Exons	1..1348		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o3.ts	Method	TBLASTX:Soybean
Start	105	End	339
GI	none	Score	73
Exons	105..338, 114..314, 178..339		

Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o1.tm	Method	TBLASTX:Maize
Start	174	End	623
GI	none	Score	95
Exons	174..368, 190..393, 375..617, 391..618, 492..623		

Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o2.tw	Method	TBLASTX:Wheat
Start	214	End	557
GI	none	Score	74



Exons	214..462, 219..368, 412..507, 414..509, 516..557		
Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o1.tc	Method	TBLASTX:Cress
Start	462	End	809
GI	none	Score	98
Exons	462..809, 463..615, 655..804		
Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o2.ts	Method	TBLASTX:Soybean
Start	543	End	810
GI	none	Score	116
Exons	543..806, 544..810		
Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o1.tw	Method	TBLASTX:Wheat
Start	558	End	1238
GI	none	Score	86
Exons	558..683, 690..809, 703..813, 822..1238, 949..1149		
Seq. No.	37867	Seq. ID	OJ991119_11.0207.C1
Gene No.	77864	Strand	-
Start	1	End	1348
Name	OJ991119_11.0207.C1.o1.ts	Method	TBLASTX:Soybean
Start	829	End	1166
GI	none	Score	199
Exons	829..1113, 831..1112, 881..1153, 1111..1161, 1119..1166		
Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77865	Strand	+
Start	8885	End	25277
Name	OJ991119_11.0207.C2.o8.np	Method	AAT/NAP
Start	8885	End	24582
GI	4680183	Score	142
Exons	8885..8912, 23815..23883, 24491..24582		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77865	Strand	+
Start	8885	End	25277
Name	OJ991119_11.0207.C2.o4.gs	Method	GENSCAN
Start	17831	End	20013
GI	none	Score	.67
Exons	17831..17906, 17911..18045, 18554..18671, 18877..19007, 19175..19401, 19502..19625, 19631..20013		
Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77865	Strand	+
Start	8885	End	25277
Name	OJ991119_11.0207.C2.o7.np	Method	AAT/NAP
Start	21451	End	23580

GI 4234852 Score 149  
Exons 21451..21485, 22796..23158, 23203..23580  
GI Descrip. (AF082133) gag-pol polyprotein [Zea mays]

Seq. No. 37868 Seq. ID OJ991119\_11.0207.C2  
Gene No. 77865 Strand +  
Start 8885 End 25277  
Name OJ991119\_11.0207.C2.o6.np Method AAT/NAP  
Start 22797 End 23427  
GI 4234848 Score 149  
Exons 22797..23427  
GI Descrip. (AF082131) gag-pol polyprotein [Zea mays]

Seq. No. 37868 Seq. ID OJ991119\_11.0207.C2  
Gene No. 77865 Strand +  
Start 8885 End 25277  
Name OJ991119\_11.0207.C2.o6.gs Method GENSCAN  
Start 22967 End 25277  
GI none Score .67  
Exons 22967..23138, 23815..23951, 24361..24479, 25229..25277

Seq. No. 37868 Seq. ID OJ991119\_11.0207.C2  
Gene No. 77866 Strand -  
Start 106 End 25527  
Name OJ991119\_11.0207.C2.o2.np Method AAT/NAP  
Start 106 End 5255  
GI 6319856 Score 81  
Exons 106..138, 2852..3085, 5097..5255  
GI Descrip. Active transport ATPase; Adplp gi|113449|sp|P25371|ADP1\_YEAST  
PROBABLE ATP-DEPENDENT PERMEASE PRECURSOR gi|83202|pir|S19421  
ATP-dependent permease ADP1 precursor - yeast (Saccharomyces  
cerevisiae) gi|1907154|emb|CAA42328| (X59720) YCR011c, len:1049  
[Saccharomyces cerevisiae]

Seq. No. 37868 Seq. ID OJ991119\_11.0207.C2  
Gene No. 77866 Strand -  
Start 106 End 25527  
Name OJ991119\_11.0207.C2.o3.tm Method TBLASTX:Maize  
Start 975 End 1200  
GI none Score 223  
Exons 975..1199, 976..1200

Seq. No. 37868 Seq. ID OJ991119\_11.0207.C2  
Gene No. 77866 Strand -  
Start 106 End 25527  
Name OJ991119\_11.0207.C2.o1.tm Method TBLASTX:Maize  
Start 1544 End 4394  
GI none Score 292  
Exons 1544..1828, 1551..1823, 4314..4394

Seq. No. 37868 Seq. ID OJ991119\_11.0207.C2  
Gene No. 77866 Strand -  
Start 106 End 25527  
Name OJ991119\_11.0207.C2.o1.tw Method TBLASTX:Wheat  
Start 1557 End 1904  
GI none Score 157  
Exons 1557..1742, 1857..1904

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o2.gs	Method	GENSCAN
Start	1878	End	3373
GI	none	Score	.96
Exons	1878..1897, 2941..3373		

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o3.gs	Method	GENSCAN
Start	3700	End	15049
GI	none	Score	.44
Exons	3700..3754, 4315..4376, 4547..4614, 5342..5471, 6074..6296, 6422..6529, 8239..8416, 9406..9492, 10917..11034, 12761..12834, 13041..13257, 13477..13569, 15044..15049		

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o4.np	Method	AAT/NAP
Start	8450	End	9585
GI	5042463	Score	187
Exons	8450..8507, 8555..8728, 9406..9585		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o5.np	Method	AAT/NAP
Start	13607	End	25527
GI	5295955	Score	148
Exons	13607..13699, 15644..15736, 18580..18656, 18713..18928, 19293..19593, 19810..20011, 21934..22039, 25488..25527		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome. (V01555) [Oryza sativa]		

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o2.gp	Method	AAT/GAP
Start	16792	End	16848
GI	2800484	Score	.75
Exons	16792..16848		
GI Descrip.	5803242/dbj AP000399.1 AP000399 7.0e-10 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o5.gs	Method	GENSCAN
Start	20851	End	22195
GI	none	Score	.53
Exons	20851..21053, 21218..21260, 21643..21778, 21946..22081, 22132..22195		

Seq. No.	37868	Seq. ID	OJ991119_11.0207.C2
Gene No.	77866	Strand	-
Start	106	End	25527
Name	OJ991119_11.0207.C2.o2.tm	Method	TBLASTX:Maize
Start	22786	End	23558
GI	none	Score	86
Exons	22786..22932, 22796..22933, 22930..23076, 22931..23155, 23060..23095, 23329..23421, 23493..23558		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o1.np	Method	AAT/NAP
Start	1	End	3503
GI	4234852	Score	3118
Exons	1..119, 491..3503		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o2.np	Method	AAT/NAP
Start	1	End	5272
GI	6671178	Score	45
Exons	1..114, 4885..5104, 5219..5272		
GI Descrip.	(AF193607) truncated SON protein [Mus musculus]		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o2.ts	Method	TBLASTX:Soybean
Start	742	End	1140
GI	none	Score	305
Exons	742..1140		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o2.tw	Method	TBLASTX:Wheat
Start	916	End	1578
GI	none	Score	220
Exons	916..1155, 1056..1154, 1195..1500, 1218..1304, 1324..1443, 1498..1578		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o3.tm	Method	TBLASTX:Maize
Start	931	End	1389
GI	none	Score	122
Exons	931..1155, 1201..1389, 1206..1388		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o4.ts	Method	TBLASTX:Soybean

Start	1194	End	1581
GI	none	Score	155
Exons	1194..1403, 1195..1404, 1407..1469, 1408..1470, 1510..1581, 1512..1580		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o4.tw	Method	TBLASTX:Wheat
Start	1897	End	2100
GI	none	Score	175
Exons	1897..2100, 1932..2096		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o1.ts	Method	TBLASTX:Soybean
Start	1981	End	2442
GI	5509260	Score	372
Exons	1981..2190, 1984..2442, 1992..2420		
GI Descrip.	-		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o1.tc	Method	TBLASTX:Cress
Start	2071	End	2331
GI	none	Score	253
Exons	2071..2331, 2073..2330		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o1.tw	Method	TBLASTX:Wheat
Start	2112	End	2902
GI	none	Score	339
Exons	2112..2201, 2113..2457, 2268..2456, 2516..2902, 2553..2891		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o2.tm	Method	TBLASTX:Maize
Start	2113	End	2421
GI	none	Score	268
Exons	2113..2421, 2268..2420		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o1.tm	Method	TBLASTX:Maize
Start	2556	End	3005
GI	none	Score	71
Exons	2556..2714, 2691..3005, 2699..2986		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526

Name	OJ991119_11.0207.C3.o3.ts	Method	TBLASTX:Soybean
Start	2877	End	3449
GI	none	Score	230
Exons	2877..3242, 2936..2959, 3041..3175, 3267..3449		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o3.tw	Method	TBLASTX:Wheat
Start	2985	End	3452
GI	none	Score	285
Exons	2985..3452, 3080..3283, 3338..3451		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o4.tm	Method	TBLASTX:Maize
Start	3006	End	3464
GI	none	Score	130
Exons	3006..3221, 3282..3464		

Seq. No.	37869	Seq. ID	OJ991119_11.0207.C3
Gene No.	77867	Strand	+
Start	1	End	5526
Name	OJ991119_11.0207.C3.o2.gs	Method	GENSCAN
Start	4786	End	5526
GI	none	Score	1
Exons	4786..5526		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o1.gs	Method	GENSCAN
Start	191	End	6021
GI	none	Score	.69
Exons	191..341, 580..732, 811..1697, 1785..2231, 2310..2534, 2610..3041, 3678..4071, 4548..5298, 5355..5482, 5519..5780, 5865..5954, 5976..6021		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o1.np	Method	AAT/NAP
Start	2310	End	4069
GI	4680204	Score	125

Exons 2310..2405, 3797..4069  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o1.tw	Method	TBLASTX:Wheat
Start	4619	End	5868
GI	none	Score	75
Exons	4619..4738, 4739..4843, 4740..4844, 4862..4915, 4915..4959, 4916..4966, 4982..5122, 4983..5108, 5120..5266, 5130..5267, 5275..5319, 5324..5824, 5326..5868		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o1.ts	Method	TBLASTX:Soybean
Start	4682	End	4930
GI	none	Score	90
Exons	4682..4930, 4746..4928		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o2.np	Method	AAT/NAP
Start	5037	End	6046
GI	6742729	Score	820
Exons	5037..6046		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o1.tc	Method	TBLASTX:Cress
Start	5156	End	5581
GI	none	Score	45
Exons	5156..5266, 5160..5267, 5275..5319, 5324..5581, 5326..5577		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o1.tm	Method	TBLASTX:Maize
Start	5512	End	5827
GI	none	Score	162
Exons	5512..5826, 5531..5827		

Seq. No.	37870	Seq. ID	OJ991119_11.0207.C4
Gene No.	77868	Strand	-
Start	191	End	6046
Name	OJ991119_11.0207.C4.o2.ts	Method	TBLASTX:Soybean
Start	5524	End	5907
GI	none	Score	64
Exons	5524..5769, 5525..5650, 5779..5907		

Seq. No.	37871	Seq. ID	OJ991119_11.0207.C5
Gene No.	77869	Strand	-
Start	998	End	4322
Name	OJ991119_11.0207.C5.o2.np	Method	AAT/NAP
Start	998	End	4322
GI	4680199	Score	369
Exons	998..1017, 2306..2799, 2878..3009, 3396..3972, 4022..4322		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	37871	Seq. ID	OJ991119_11.0207.C5
Gene No.	77870	Strand	-
Start	5142	End	7150
Name	OJ991119_11.0207.C5.o1.tw	Method	TBLASTX:Wheat
Start	2307	End	2532
GI	none	Score	149

Exons 2307..2531, 2308..2532

Seq. No.	37871	Seq. ID	OJ991119_11.0207.C5
Gene No.	77870	Strand	-
Start	5142	End	7150
Name	OJ991119_11.0207.C5.o1.tm	Method	TBLASTX:Maize
Start	2319	End	2927
GI	none	Score	38
Exons	2319..2543, 2571..2801, 2850..2927		

Seq. No.	37871	Seq. ID	OJ991119_11.0207.C5
Gene No.	77870	Strand	-
Start	5142	End	7150
Name	OJ991119_11.0207.C5.o2.tm	Method	TBLASTX:Maize
Start	3830	End	4324
GI	none	Score	61
Exons	3830..3934, 3830..3934, 3850..3936, 4106..4324, 4179..4313		

Seq. No.	37871	Seq. ID	OJ991119_11.0207.C5
Gene No.	77870	Strand	-
Start	5142	End	7150
Name	OJ991119_11.0207.C5.o2.gs	Method	GENSCAN
Start	5142	End	7150
GI	none	Score	.47
Exons	5142..5303, 5352..5391, 6233..6254, 7039..7150		

Seq. No.	37872	Seq. ID	OJ991119_11.0207.C6
Gene No.	77871	Strand	+
Start	1775	End	4521
Name	OJ991119_11.0207.C6.o1.gs	Method	GENSCAN
Start	1775	End	4521
GI	none	Score	.43
Exons	1775..1916, 4370..4521		

Seq. No.	37872	Seq. ID	OJ991119_11.0207.C6
Gene No.	77872	Strand	
Start	5014	End	5539
Name	OJ991119_11.0207.C6.o1.tm	Method	TBLASTX:Maize
Start	5014	End	5539
GI	none	Score	93
Exons	5014..5151, 5020..5136, 5028..5150, 5028..5126, 5033..5143, 5046..5132, 5080..5190, 5080..5181, 5139..5240, 5140..5256, 5141..5239, 5231..5359, 5247..5399, 5250..5381, 5252..5377, 5252..5374, 5253..5369, 5255..5350, 5260..5382, 5262..5399, 5262..5366, 5265..5366, 5266..5370, 5266..5367, 5325..5501, 5388..5495, 5397..5498, 5398..5517, 5400..5495, 5402..5539, 5407..5517, 5414..5506, 5425..5502, 5425..5514, 5425..5517, 5425..5517		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77873	Strand	+
Start	79	End	526
Name	OJ991119_11.0207.C7.o1.gs	Method	GENSCAN
Start	79	End	526
GI	none	Score	.74
Exons	79..526		



Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o1.tm	Method	TBLASTX:Maize
Start	9793	End	12480
GI	none	Score	53
Exons	9793..9855, 9968..10396, 9969..10511, 10332..10427, 10448..10513, 10488..10526, 11797..11982, 11801..11968, 11806..11982, 12088..12144, 12090..12245, 12226..12246, 12366..12473, 12366..12479, 12367..12480		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o3.gs	Method	GENSCAN
Start	9971	End	12527
GI	none	Score	.99
Exons	9971..10510, 11797..11982, 12090..12244, 12365..12527		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o1.np	Method	AAT/NAP
Start	9974	End	12527
GI	3668115	Score	1406
Exons	9974..10510, 11797..11982, 12090..12244, 12365..12527		
GI Descrip.	(Y15069) cinnamoyl-CoA reductase [Zea mays]		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o1.ts	Method	TBLASTX:Soybean
Start	9993	End	12465
GI	none	Score	301
Exons	9993..10511, 10013..10396, 10448..10513, 11797..11982, 11801..11968, 12051..12242, 12079..12141, 12366..12464, 12367..12465		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o2.tc	Method	TBLASTX:Cress
Start	10004	End	10196
GI	none	Score	120
Exons	10004..10195, 10005..10196		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o1.tw	Method	TBLASTX:Wheat
Start	10022	End	10382
GI	none	Score	207
Exons	10022..10228, 10026..10229, 10223..10381, 10224..10382		

Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527

Name	OJ991119_11.0207.C7.o1.tc	Method	TBLASTX:Cress
Start	11794	End	12471
GI	none	Score	120
Exons	11794..11982, 11801..11968, 12088..12138, 12090..12242, 12345..12470, 12367..12471		
Seq. No.	37873	Seq. ID	OJ991119_11.0207.C7
Gene No.	77874	Strand	-
Start	9971	End	12527
Name	OJ991119_11.0207.C7.o2.tw	Method	TBLASTX:Wheat
Start	12090	End	12471
GI	none	Score	62
Exons	12090..12278, 12091..12138, 12351..12458, 12367..12423, 12369..12470, 12370..12471		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77875	Strand	+
Start	972	End	6619
Name	OJ991119_11.0207.C10.o1.np	Method	AAT/NAP
Start	972	End	6619
GI	6498441	Score	6901
Exons	972..2036, 2367..2830, 2894..3267, 3451..3585, 3760..4100, 4293..4675, 4847..6244, 6338..6619		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o6.tw	Method	TBLASTX:Wheat
Start	1121	End	1513
GI	none	Score	58
Exons	1121..1168, 1175..1273, 1180..1272, 1240..1479, 1256..1513		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o4.tm	Method	TBLASTX:Maize
Start	1126	End	1411
GI	none	Score	193
Exons	1126..1410, 1163..1411		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o5.tw	Method	TBLASTX:Wheat
Start	1521	End	4981
GI	none	Score	236
Exons	1521..1574, 4547..4798, 4547..4744, 4612..4788, 4832..4981, 4843..4980		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o3.tw	Method	TBLASTX:Wheat
Start	2251	End	2710

GI	none	Score	404
Exons	2251..2388, 2252..2710, 2446..2706		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o1.tw	Method	TBLASTX:Wheat
Start	2901	End	3364
GI	none	Score	215
Exons	2901..3344, 2902..3357, 2903..3364, 2903..3358		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o3.ts	Method	TBLASTX:Soybean
Start	2942	End	3307
GI	none	Score	117
Exons	2942..3166, 3173..3307		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o1.tm	Method	TBLASTX:Maize
Start	3032	End	3388
GI	none	Score	390
Exons	3032..3388, 3067..3378, 3083..3388		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o3.tm	Method	TBLASTX:Maize
Start	3415	End	3799
GI	none	Score	364
Exons	3415..3780, 3416..3799		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o2.tw	Method	TBLASTX:Wheat
Start	3472	End	3892
GI	none	Score	490
Exons	3472..3885, 3473..3892		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o1.ts	Method	TBLASTX:Soybean
Start	3551	End	3922
GI	none	Score	282
Exons	3551..3922, 3568..3711		
Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o2.ts	Method	TBLASTX:Soybean
Start	4670	End	5236
GI	5666795	Score	68

Exons 4670..4768, 4844..4981, 5036..5236  
GI Descrip. 4206306 2.0e-10 (AF049110) prpol [Zea mays]

Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o8.tw	Method	TBLASTX:Wheat
Start	4984	End	5296
GI	none	Score	190
Exons	4984..5160, 5036..5296		

Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o2.tm	Method	TBLASTX:Maize
Start	5489	End	5851
GI	none	Score	365
Exons	5489..5812, 5506..5799, 5804..5851		

Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o4.tw	Method	TBLASTX:Wheat
Start	5626	End	5980
GI	none	Score	371
Exons	5626..5682, 5627..5980, 5723..5968, 5728..5976		

Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o7.tw	Method	TBLASTX:Wheat
Start	5999	End	6607
GI	none	Score	265
Exons	5999..6109, 6008..6292, 6034..6111, 6148..6318, 6148..6291, 6484..6606, 6485..6607		

Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o2.gs	Method	GENSCAN
Start	7249	End	10494
GI	none	Score	.98
Exons	7249..7911, 7926..9138, 9234..9376, 9391..10494		

Seq. No.	37874	Seq. ID	OJ991119_11.0207.C10
Gene No.	77876	Strand	-
Start	7249	End	10494
Name	OJ991119_11.0207.C10.o2.np	Method	AAT/NAP
Start	7252	End	10494
GI	5803259	Score	4943
Exons	7252..9138, 9234..10494		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	37875	Seq. ID	OJ991119_11.0207.C11
Gene No.	77877	Strand	+
Start	335	End	1504
Name	OJ991119_11.0207.C11.o1.gs	Method	GENSCAN

Start	335	End	1504
GI	none	Score	.4
Exons	335..447, 677..831, 1488..1504		

  

Seq. No.	37875	Seq. ID	OJ991119_11.0207.C11
Gene No.	77878	Strand	-
Start	1	End	864
Name	OJ991119_11.0207.C11.o1.np	Method	AAT/NAP
Start	1	End	864
GI	5922623	Score	206
Exons	1..80, 248..404, 784..864		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	37876	Seq. ID	OJ991119_11.0207.C12
Gene No.	77879	Strand	+
Start	1820	End	5200
Name	OJ991119_11.0207.C12.o1.gs	Method	GENSCAN
Start	1820	End	5200
GI	none	Score	.56
Exons	1820..1873, 3779..3979, 4157..4479, 4507..5200		

Seq. No.	37876	Seq. ID	OJ991119_11.0207.C12
Gene No.	77880	Strand	+
Start	5688	End	6166
Name	OJ991119_11.0207.C12.o2.gs	Method	GENSCAN
Start	5688	End	6166
GI	none	Score	.67
Exons	5688..5744, 5919..6058, 6103..6166		

Seq. No.	37876	Seq. ID	OJ991119_11.0207.C12
Gene No.	77881	Strand	-
Start	8350	End	8655
Name	OJ991119_11.0207.C12.o1.np	Method	AAT/NAP
Start	8350	End	8655
GI	4584522	Score	234
Exons	8350..8655		
GI Descrip.	(AL049607) putative protein [Arabidopsis thaliana]		

Seq. No.	37876	Seq. ID	OJ991119_11.0207.C12
Gene No.	77881	Strand	-
Start	8350	End	8655
Name	OJ991119_11.0207.C12.o1.tc	Method	TBLASTX:Cress
Start	8366	End	8652
GI	none	Score	44
Exons	8366..8434, 8371..8550, 8542..8652, 8555..8650		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77882	Strand	+
Start	2075	End	2485
Name	OJ991119_11.0207.C13.o1.gp	Method	AAT/GAP
Start	2075	End	2485
GI	none	Score	783
Exons	2075..2485		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
----------	-------	---------	----------------------

Gene No.	77883	Strand	-
Start	1282	End	1596
Name	OJ991119_11.0207.C13.o1.gs	Method	GENSCAN
Start	1282	End	1596
GI	none	Score	.56
Exons	1282..1357, 1505..1596		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o1.tm	Method	TBLASTX:Maize
Start	3152	End	4455
GI	none	Score	35
Exons	3152..3184, 3196..4083, 3198..3425, 3199..3732, 3209..4228, 3578..4078, 3639..4226, 3784..4245, 4133..4378, 4138..4266, 4290..4367, 4333..4377, 4360..4455, 4374..4409, 4375..4410, 4375..4413		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o1.tc	Method	TBLASTX:Cress
Start	3236	End	3832
GI	none	Score	131
Exons	3236..3457, 3261..3425, 3467..3832, 3477..3539, 3513..3593, 3711..3830		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o1.ts	Method	TBLASTX:Soybean
Start	3242	End	4199
GI	none	Score	163
Exons	3242..3457, 3255..3461, 3258..3425, 3262..3465, 3482..3538, 3483..3569, 3510..3593, 3515..4198, 3578..4057, 3639..4199		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o1.np	Method	AAT/NAP
Start	3245	End	5429
GI	3367534	Score	2618
Exons	3245..5429		
GI Descrip.	(AC004392) Strong similarity to coatamer alpha subunit (HEPCOP) homolog gb U24105 from Homo sapiens. [Arabidopsis thaliana]		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o2.ts	Method	TBLASTX:Soybean
Start	4345	End	5059
GI	none	Score	119
Exons	4345..4623, 4345..4599, 4398..5057, 4418..5059, 4449..5054		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429

Name	OJ991119_11.0207.C13.o2.tc	Method	TBLASTX:Cress
Start	4463	End	4921
GI	none	Score	342
Exons	4463..4498, 4493..4921, 4497..4913, 4514..4921		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o2.tm	Method	TBLASTX:Maize
Start	4568	End	5206
GI	none	Score	562
Exons	4568..4969, 4569..4973, 4963..5160, 4970..5206, 4971..5201, 5002..5202		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o4.tc	Method	TBLASTX:Cress
Start	4922	End	5104
GI	none	Score	176
Exons	4922..5104, 4923..5102		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o3.ts	Method	TBLASTX:Soybean
Start	5060	End	5291
GI	none	Score	230
Exons	5060..5290, 5061..5291		

Seq. No.	37877	Seq. ID	OJ991119_11.0207.C13
Gene No.	77884	Strand	-
Start	3245	End	5429
Name	OJ991119_11.0207.C13.o3.tc	Method	TBLASTX:Cress
Start	5141	End	5337
GI	none	Score	220
Exons	5141..5179, 5154..5327, 5159..5332, 5166..5336, 5203..5337		

Seq. No.	37878	Seq. ID	OJ991119_11.0207.C14
Gene No.	77885	Strand	+
Start	295	End	576
Name	OJ991119_11.0207.C14.o1.np	Method	AAT/NAP
Start	295	End	576
GI	6539588	Score	88
Exons	295..576		

GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No.	37878	Seq. ID	OJ991119_11.0207.C14
Gene No.	77886	Strand	-
Start	388	End	474
Name	OJ991119_11.0207.C14.o1.gs	Method	GENSCAN
Start	388	End	474
GI	none	Score	.48
Exons	388..474		

Seq. No.	37879	Seq. ID	OJ991109_10.0203.C1
Gene No.	77887	Strand	-

Start	1	End	303
Name	OJ991109_10.0203.C1.o1.np	Method	AAT/NAP
Start	1	End	303
GI	4512231	Score	503
Exons	1..303		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	37879	Seq. ID	OJ991109_10.0203.C1
Gene No.	77887	Strand	-
Start	1	End	303
Name	OJ991109_10.0203.C1.o1.gs	Method	GENSCAN
Start	73	End	303
GI	none	Score	.55
Exons	73..303		

Seq. No.	37880	Seq. ID	OJ991109_10.0203.C2
Gene No.	77888	Strand	-
Start	90	End	617
Name	OJ991109_10.0203.C2.o1.gs	Method	GENSCAN
Start	90	End	617
GI	none	Score	.51
Exons	90..273, 324..617		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o2.tm	Method	TBLASTX:Maize
Start	460	End	949
GI	none	Score	87
Exons	460..522, 476..565, 616..786, 617..865, 848..949		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o3.tw	Method	TBLASTX:Wheat
Start	827	End	1153
GI	none	Score	185
Exons	827..1153, 866..1105, 946..1143		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o1.tm	Method	TBLASTX:Maize
Start	950	End	1633
GI	none	Score	155
Exons	950..1171, 958..1143, 1259..1483, 1514..1633		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o1.ts	Method	TBLASTX:Soybean
Start	1259	End	1897
GI	none	Score	109
Exons	1259..1486, 1496..1594, 1685..1747, 1874..1897		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+



Start	2943	End	3870
Name	OJ991109_10.0203.C3.o2.tw	Method	TBLASTX:Wheat
Start	1619	End	1954
GI	none	Score	183
Exons	1619..1825, 1621..1800, 1732..1800, 1834..1950, 1835..1954		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o4.tm	Method	TBLASTX:Maize
Start	1634	End	2002
GI	none	Score	144
Exons	1634..1825, 1693..1824, 1704..1844, 1823..1900, 1892..2002		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o3.tm	Method	TBLASTX:Maize
Start	2252	End	2567
GI	none	Score	96
Exons	2252..2356, 2349..2567, 2424..2555		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o1.tc	Method	TBLASTX:Cress
Start	2840	End	3289
GI	none	Score	351
Exons	2840..3289, 2848..3285, 2852..3289		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o1.tw	Method	TBLASTX:Wheat
Start	2851	End	3865
GI	none	Score	508
Exons	2851..3456, 2852..3472, 3466..3510, 3467..3511, 3470..3511, 3514..3609, 3518..3577, 3556..3681, 3557..3685, 3587..3703, 3725..3790, 3779..3865, 3783..3854		

Seq. No.	37881	Seq. ID	OJ991109_10.0203.C3
Gene No.	77889	Strand	+
Start	2943	End	3870
Name	OJ991109_10.0203.C3.o2.np	Method	AAT/NAP
Start	2943	End	3870
GI	4680203	Score	900
Exons	2943..3870		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37882	Seq. ID	OJ991109_10.0203.C4
Gene No.	77890	Strand	+
Start	1447	End	3751
Name	OJ991109_10.0203.C4.o1.np	Method	AAT/NAP
Start	1447	End	3751
GI	4680204	Score	777
Exons	1447..2839, 2952..3502, 3717..3751		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	37882	Seq. ID	OJ991109_10.0203.C4
Gene No.	77890	Strand	+
Start	1447	End	3751
Name	OJ991109_10.0203.C4.o1.tw	Method	TBLASTX:Wheat
Start	2056	End	2457
GI	none	Score	201
Exons	2056..2292, 2056..2199, 2112..2297, 2287..2457, 2340..2456		

Seq. No.	37882	Seq. ID	OJ991109_10.0203.C4
Gene No.	77890	Strand	+
Start	1447	End	3751
Name	OJ991109_10.0203.C4.o2.tw	Method	TBLASTX:Wheat
Start	2458	End	3161
GI	none	Score	68
Exons	2458..2538, 2771..2842, 2946..3161		

Seq. No.	37883	Seq. ID	OJ991109_10.0203.C5
Gene No.	77891	Strand	+
Start	69	End	2156
Name	OJ991109_10.0203.C5.o1.tw	Method	TBLASTX:Wheat
Start	55	End	410
GI	none	Score	145
Exons	55..252, 58..252, 271..312, 326..403, 330..410		

Seq. No.	37883	Seq. ID	OJ991109_10.0203.C5
Gene No.	77891	Strand	+
Start	69	End	2156
Name	OJ991109_10.0203.C5.o1.gs	Method	GENSCAN
Start	69	End	2156
GI	none	Score	.67
Exons	69..242, 1908..2037, 2073..2156		

Seq. No.	37884	Seq. ID	OJ991109_10.0203.C6
Gene No.	77892	Strand	+
Start	1014	End	2044
Name	OJ991109_10.0203.C6.o1.gs	Method	GENSCAN
Start	1014	End	2044
GI	none	Score	.4
Exons	1014..1422, 1953..2044		

Seq. No.	37885	Seq. ID	OJ991109_10.0203.C7
Gene No.	77893	Strand	+
Start	61	End	324
Name	OJ991109_10.0203.C7.o1.gs	Method	GENSCAN
Start	61	End	324
GI	none	Score	.86
Exons	61..107, 231..324		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77894	Strand	+
Start	1	End	3646
Name	OJ991109_10.0203.C8.o1.np	Method	AAT/NAP
Start	1	End	3646
GI	4680179	Score	1785
Exons	1..1245, 3564..3646		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77894	Strand	+
Start	1	End	3646
Name	OJ991109_10.0203.C8.o1.gs	Method	GENSCAN
Start	4	End	1323
GI	none	Score	.64
Exons	4..1323		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77894	Strand	+
Start	1	End	3646
Name	OJ991109_10.0203.C8.o2.np	Method	AAT/NAP
Start	2033	End	3646
GI	5852180	Score	91
Exons	2033..2089, 3264..3646		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77894	Strand	+
Start	1	End	3646
Name	OJ991109_10.0203.C8.o3.np	Method	AAT/NAP
Start	2186	End	2391
GI	4680186	Score	185
Exons	2186..2391		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77894	Strand	+
Start	1	End	3646
Name	OJ991109_10.0203.C8.o2.gs	Method	GENSCAN
Start	3117	End	3619
GI	none	Score	.92
Exons	3117..3159, 3168..3619		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o3.tm	Method	TBLASTX:Maize
Start	1	End	186
GI	none	Score	181
Exons	1..186		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o2.tw	Method	TBLASTX:Wheat
Start	31	End	403
GI	none	Score	65
Exons	31..114, 96..176, 97..180, 184..381, 192..386, 215..403, 286..402		

Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o2.tm	Method	TBLASTX:Maize
Start	193	End	693

GI	none	Score	166
Exons	193..372, 201..320, 379..693,	519..572, 600..650	
Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o1.ts	Method	TBLASTX:Soybean
Start	247	End	642
GI	none	Score	57
Exons	247..279, 249..278, 283..642,	285..320, 351..641	
Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o3.tw	Method	TBLASTX:Wheat
Start	405	End	657
GI	none	Score	320
Exons	405..641, 409..657		
Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o1.tw	Method	TBLASTX:Wheat
Start	658	End	1161
GI	none	Score	626
Exons	658..1161, 690..1079		
Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o2.ts	Method	TBLASTX:Soybean
Start	664	End	909
GI	none	Score	208
Exons	664..909, 681..908		
Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o1.tm	Method	TBLASTX:Maize
Start	729	End	1092
GI	none	Score	472
Exons	729..1079, 730..1083, 730..1092		
Seq. No.	37886	Seq. ID	OJ991109_10.0203.C8
Gene No.	77895	Strand	-
Start	1938	End	2320
Name	OJ991109_10.0203.C8.o1.gp	Method	AAT/GAP
Start	1938	End	2320
GI	uC-osflcyp033a04b1	Score	656
Exons	1938..2320		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	37887	Seq. ID	OJ991109_10.0203.C9
Gene No.	77896	Strand	-
Start	1128	End	1220
Name	OJ991109_10.0203.C9.o1.gs	Method	GENSCAN

Start 1128  
GI none  
Exons 1128..1220

End 1220  
Score .42

Seq. No. 37888  
Gene No. 77897  
Start 786  
Name OJ991109\_10.0203.C11.o1.gs  
Start 786  
GI none  
Exons 786..1913

Seq. ID OJ991109\_10.0203.C11  
Strand +  
End 1991  
Method GENSCAN  
End 1913  
Score .67

Seq. No. 37888  
Gene No. 77897  
Start 786  
Name OJ991109\_10.0203.C11.o1.np  
Start 1038  
GI 729704  
Exons 1038..1166, 1359..1415, 1658..1787, 1972..1991

Seq. ID OJ991109\_10.0203.C11  
Strand +  
End 1991  
Method AAT/NAP  
End 1991  
Score 50

GI Descrip. DNA-BINDING PROTEIN HEXBP (HEXAMER-BINDING PROTEIN)  
gi|1078700|pir|A47156 hexamer-binding protein HEXBP -  
Leishmania major gi|159342 (M94390) HEXBP DNA binding protein  
[Leishmania major]

Seq. No. 37889  
Gene No. 77898  
Start 1  
Name OJ991109\_10.0203.C12.o1.np  
Start 1  
GI 4680179  
Exons 1..56, 512..756, 835..1694  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ991109\_10.0203.C12  
Strand -  
End 1694  
Method AAT/NAP  
End 1694  
Score 603

Seq. No. 37889  
Gene No. 77899  
Start 3769  
Name OJ991109\_10.0203.C12.o1.tw  
Start 855  
GI none  
Exons 855..1211, 1033..1197

Seq. ID OJ991109\_10.0203.C12  
Strand -  
End 5529  
Method TBLASTX:Wheat  
End 1211  
Score 86

Seq. No. 37889  
Gene No. 77899  
Start 3769  
Name OJ991109\_10.0203.C12.o1.tm  
Start 912  
GI none  
Exons 912..1211, 1084..1197

Seq. ID OJ991109\_10.0203.C12  
Strand -  
End 5529  
Method TBLASTX:Maize  
End 1211  
Score 77

Seq. No. 37889  
Gene No. 77899  
Start 3769  
Name OJ991109\_10.0203.C12.o2.tw  
Start 1221  
GI none  
Exons 1221..1451, 1222..1449

Seq. ID OJ991109\_10.0203.C12  
Strand -  
End 5529  
Method TBLASTX:Wheat  
End 1451  
Score 105

Seq. No.	37889	Seq. ID	OJ991109_10.0203.C12
Gene No.	77899	Strand	-
Start	3769	End	5529
Name	OJ991109_10.0203.C12.o2.np	Method	AAT/NAP
Start	3769	End	5529
GI	6907087	Score	926
Exons	3769..3870, 4411..4725, 4770..5529		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37890	Seq. ID	OJ991109_10.0203.C13
Gene No.	77900	Strand	-
Start	1	End	1158
Name	OJ991109_10.0203.C13.o1.np	Method	AAT/NAP
Start	1	End	1158
GI	4680179	Score	1590
Exons	1..1158		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37890	Seq. ID	OJ991109_10.0203.C13
Gene No.	77900	Strand	-
Start	1	End	1158
Name	OJ991109_10.0203.C13.o2.tm	Method	TBLASTX:Maize
Start	42	End	425
GI	none	Score	135
Exons	42..425, 43..372		

Seq. No.	37890	Seq. ID	OJ991109_10.0203.C13
Gene No.	77900	Strand	-
Start	1	End	1158
Name	OJ991109_10.0203.C13.o2.tw	Method	TBLASTX:Wheat
Start	60	End	461
GI	none	Score	317
Exons	60..422, 61..420, 183..461, 368..442		

Seq. No.	37890	Seq. ID	OJ991109_10.0203.C13
Gene No.	77900	Strand	-
Start	1	End	1158
Name	OJ991109_10.0203.C13.o1.gs	Method	GENSCAN
Start	158	End	1104
GI	none	Score	.5
Exons	158..1104		

Seq. No.	37890	Seq. ID	OJ991109_10.0203.C13
Gene No.	77900	Strand	-
Start	1	End	1158
Name	OJ991109_10.0203.C13.o1.ts	Method	TBLASTX:Soybean
Start	174	End	569
GI	none	Score	69
Exons	174..425, 183..326, 184..417, 370..516, 390..434, 480..533, 490..531, 536..568, 537..569, 537..569		

Seq. No.	37890	Seq. ID	OJ991109_10.0203.C13
Gene No.	77900	Strand	-
Start	1	End	1158
Name	OJ991109_10.0203.C13.o1.tm	Method	TBLASTX:Maize

Start 480  
GI none  
Exons 480..923, 685..927

End 927  
Score 70

Seq. No. 37890  
Gene No. 77900  
Start 1  
Name OJ991109\_10.0203.C13.o1.tw  
Start 510  
GI none  
Exons 510..992, 513..977, 553..993

Seq. ID OJ991109\_10.0203.C13  
Strand -  
End 1158  
Method TBLASTX:Wheat  
End 993  
Score 213

Seq. No. 37890  
Gene No. 77900  
Start 1  
Name OJ991109\_10.0203.C13.o2.ts  
Start 642  
GI none  
Exons 642..956

Seq. ID OJ991109\_10.0203.C13  
Strand -  
End 1158  
Method TBLASTX:Soybean  
End 956  
Score 198

Seq. No. 37890  
Gene No. 77900  
Start 1  
Name OJ991109\_10.0203.C13.o3.tm  
Start 930  
GI none  
Exons 930..1091, 976..1083

Seq. ID OJ991109\_10.0203.C13  
Strand -  
End 1158  
Method TBLASTX:Maize  
End 1091  
Score 106

Seq. No. 37891  
Gene No. 77901  
Start 1  
Name OJ991109\_10.0203.C15.o1.np  
Start 1  
GI 6907087  
Exons 1..372

Seq. ID OJ991109\_10.0203.C15  
Strand -  
End 372  
Method AAT/NAP  
End 372  
Score 444

GI Descrip. (AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 37891  
Gene No. 77901  
Start 1  
Name OJ991109\_10.0203.C15.o1.gs  
Start 38  
GI none  
Exons 38..217

Seq. ID OJ991109\_10.0203.C15  
Strand -  
End 372  
Method GENSCAN  
End 217  
Score .45

Seq. No. 37892  
Gene No. 77902  
Start 1014  
Name OJ991109\_10.0203.C16.o1.gs  
Start 1014  
GI none  
Exons 1014..1668

Seq. ID OJ991109\_10.0203.C16  
Strand -  
End 1668  
Method GENSCAN  
End 1668  
Score .92

Seq. No. 37893  
Gene No. 77903

Seq. ID OJ991109\_10.0203.C18  
Strand +

Start	1711	End	15207
Name	OJ991109_10.0203.C18.o1.gs	Method	GENSCAN
Start	1711	End	10145
GI	none	Score	.48
Exons	1711..1886, 2040..2142, 2341..2582, 2715..2845, 2874..3138, 3226..3421, 3439..3715, 3742..3886, 4337..4902, 4992..5106, 5420..5545, 6496..6593, 6847..6953, 7869..8474, 10079..10145		

Seq. No.	37893	Seq. ID	OJ991109_10.0203.C18
Gene No.	77903	Strand	+
Start	1711	End	15207
Name	OJ991109_10.0203.C18.o3.np	Method	AAT/NAP
Start	7373	End	15207
GI	161752	Score	76
Exons	7373..7399, 13302..13636, 13697..13805, 15152..15207		
GI Descrip.	(L03710) cnjB [Tetrahymena thermophila] gi 737494 prf  1922371A cnjB gene [Tetrahymena thermophila]		

Seq. No.	37893	Seq. ID	OJ991109_10.0203.C18
Gene No.	77903	Strand	+
Start	1711	End	15207
Name	OJ991109_10.0203.C18.o2.gp	Method	AAT/GAP
Start	9253	End	9636
GI	uC-osflcyp033a04b1	Score	645
Exons	9253..9636		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37893	Seq. ID	OJ991109_10.0203.C18
Gene No.	77903	Strand	+
Start	1711	End	15207
Name	OJ991109_10.0203.C18.o2.gs	Method	GENSCAN
Start	12546	End	14522
GI	none	Score	.55
Exons	12546..13751, 14499..14522		

Seq. No.	37893	Seq. ID	OJ991109_10.0203.C18
Gene No.	77904	Strand	-
Start	688	End	14086
Name	OJ991109_10.0203.C18.o2.np	Method	AAT/NAP
Start	688	End	14086
GI	5852180	Score	700
Exons	688..728, 7132..7214, 7917..8328, 8380..8496, 9486..9555, 13992..14086		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	37893	Seq. ID	OJ991109_10.0203.C18
Gene No.	77904	Strand	-
Start	688	End	14086
Name	OJ991109_10.0203.C18.o1.np	Method	AAT/NAP
Start	6489	End	6809
GI	4206306	Score	202
Exons	6489..6809		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	37893	Seq. ID	OJ991109_10.0203.C18
Gene No.	77904	Strand	-



Start	688	End	14086
Name	OJ991109_10.0203.C18.o1.tm	Method	TBLASTX:Maize
Start	6540	End	6800
GI	none	Score	95
Exons	6540..6800, 6565..6699		

Seq. No.	37894	Seq. ID	OJ991109_10.0203.C19
Gene No.	77905	Strand	-
Start	1	End	1030
Name	OJ991109_10.0203.C19.o1.np	Method	AAT/NAP
Start	1	End	1030
GI	5042447	Score	674
Exons	1..1030		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	37894	Seq. ID	OJ991109_10.0203.C19
Gene No.	77906	Strand	-
Start	2979	End	3360
Name	OJ991109_10.0203.C19.o1.tm	Method	TBLASTX:Maize
Start	248	End	553
GI	none	Score	76
Exons	248..553, 456..539		

Seq. No.	37894	Seq. ID	OJ991109_10.0203.C19
Gene No.	77906	Strand	-
Start	2979	End	3360
Name	OJ991109_10.0203.C19.o1.tw	Method	TBLASTX:Wheat
Start	434	End	796
GI	none	Score	139
Exons	434..796, 456..794		

Seq. No.	37894	Seq. ID	OJ991109_10.0203.C19
Gene No.	77906	Strand	-
Start	2979	End	3360
Name	OJ991109_10.0203.C19.o1.gp	Method	AAT/GAP
Start	2979	End	3360
GI	uC-osflcyp033a04b1	Score	679
Exons	2979..3360		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37895	Seq. ID	OJ991109_10.0203.C20
Gene No.	77907	Strand	+
Start	375	End	2894
Name	OJ991109_10.0203.C20.o1.gs	Method	GENSCAN
Start	375	End	2894
GI	none	Score	.49
Exons	375..522, 1829..1880, 2621..2894		

Seq. No.	37895	Seq. ID	OJ991109_10.0203.C20
Gene No.	77908	Strand	-
Start	2878	End	5439
Name	OJ991109_10.0203.C20.o1.np	Method	AAT/NAP
Start	2878	End	5439
GI	6523547	Score	355
Exons	2878..3177, 3318..3717, 5116..5439		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox		

carteri f. nagariensis]

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77909	Strand	-
Start	1	End	2965
Name	OJ991109_10.0203.C21.o1.np	Method	AAT/NAP
Start	1	End	549
GI	4378066	Score	464
Exons	1..549		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77909	Strand	-
Start	1	End	2965
Name	OJ991109_10.0203.C21.o1.gs	Method	GENSCAN
Start	11	End	2965
GI	none	Score	.49
Exons	11..288, 311..490, 1986..2046, 2378..2491, 2545..2748, 2786..2965		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o3.tw	Method	TBLASTX:Wheat
Start	44	End	292
GI	none	Score	88
Exons	44..289, 45..269, 137..292		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o2.gs	Method	GENSCAN
Start	3539	End	4333
GI	none	Score	.67
Exons	3539..4333		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o2.np	Method	AAT/NAP
Start	3542	End	4675
GI	4680179	Score	1734
Exons	3542..4675		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o2.tw	Method	TBLASTX:Wheat
Start	3587	End	3916
GI	none	Score	127
Exons	3587..3916, 3639..3905		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-

Start	3539	End	4675
Name	OJ991109_10.0203.C21.o1.tm	Method	TBLASTX:Maize
Start	3782	End	4367
GI	none	Score	77
Exons	3782..4207, 3783..3980, 4047..4208, 4205..4366, 4212..4367		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o1.tw	Method	TBLASTX:Wheat
Start	3920	End	4546
GI	none	Score	44
Exons	3920..4546, 3921..3980, 4041..4490		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o2.tm	Method	TBLASTX:Maize
Start	4415	End	4667
GI	none	Score	275
Exons	4415..4666, 4419..4667		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o1.ts	Method	TBLASTX:Soybean
Start	4505	End	4675
GI	none	Score	137
Exons	4505..4675, 4506..4673, 4541..4675		

Seq. No.	37896	Seq. ID	OJ991109_10.0203.C21
Gene No.	77910	Strand	-
Start	3539	End	4675
Name	OJ991109_10.0203.C21.o4.tw	Method	TBLASTX:Wheat
Start	4553	End	4675
GI	none	Score	139
Exons	4553..4675, 4554..4673		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77911	Strand	+
Start	170	End	427
Name	OJ991109_10.0203.C22.o1.gs	Method	GENSCAN
Start	170	End	427
GI	none	Score	.63
Exons	170..427		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77912	Strand	-
Start	1	End	4326
Name	OJ991109_10.0203.C22.o1.np	Method	AAT/NAP
Start	1	End	4326
GI	4378066	Score	1126
Exons	1..26, 806..3463, 3953..4326		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77913	Strand	-
Start	6202	End	8046
Name	OJ991109_10.0203.C22.o2.tm	Method	TBLASTX:Maize
Start	813	End	1117
GI	none	Score	61
Exons	813..917, 891..983, 902..1117, 1050..1115		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77913	Strand	-
Start	6202	End	8046
Name	OJ991109_10.0203.C22.o2.tw	Method	TBLASTX:Wheat
Start	834	End	1151
GI	none	Score	62
Exons	834..899, 835..897, 908..1150, 1083..1151		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77913	Strand	-
Start	6202	End	8046
Name	OJ991109_10.0203.C22.o1.tm	Method	TBLASTX:Maize
Start	1121	End	1478
GI	none	Score	210
Exons	1121..1477, 1122..1478		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77913	Strand	-
Start	6202	End	8046
Name	OJ991109_10.0203.C22.o1.tw	Method	TBLASTX:Wheat
Start	1151	End	1606
GI	none	Score	259
Exons	1151..1606, 1152..1544		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77913	Strand	-
Start	6202	End	8046
Name	OJ991109_10.0203.C22.o3.tw	Method	TBLASTX:Wheat
Start	1811	End	5257
GI	none	Score	67
Exons	1811..2032, 2039..2170, 5153..5257		

Seq. No.	37897	Seq. ID	OJ991109_10.0203.C22
Gene No.	77913	Strand	-
Start	6202	End	8046
Name	OJ991109_10.0203.C22.o2.np	Method	AAT/NAP
Start	6202	End	8046
GI	6063554	Score	114
Exons	6202..6374, 7825..8046		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37898	Seq. ID	OJ991109_10.0203.C24
Gene No.	77914	Strand	+
Start	117	End	487
Name	OJ991109_10.0203.C24.o1.gs	Method	GENSCAN
Start	117	End	487
GI	none	Score	.71

Exons 117..198, 393..487

Seq. No.	37898	Seq. ID	OJ991109_10.0203.C24
Gene No.	77915	Strand	-
Start	998	End	1381
Name	OJ991109_10.0203.C24.o2.gs	Method	GENSCAN
Start	998	End	1381
GI	none	Score	.67
Exons	998..1135, 1256..1381		

Seq. No.	37899	Seq. ID	OJ991109_10.0203.C26
Gene No.	77916	Strand	-
Start	1	End	502
Name	OJ991109_10.0203.C26.o1.np	Method	AAT/NAP
Start	1	End	307
GI	4680185	Score	267
Exons	1..307		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37899	Seq. ID	OJ991109_10.0203.C26
Gene No.	77916	Strand	-
Start	1	End	502
Name	OJ991109_10.0203.C26.o1.gs	Method	GENSCAN
Start	28	End	502
GI	none	Score	.43
Exons	28..502		

Seq. No.	37900	Seq. ID	OJ991109_10.0203.C27
Gene No.	77917	Strand	-
Start	1	End	869
Name	OJ991109_10.0203.C27.o1.np	Method	AAT/NAP
Start	1	End	859
GI	4680179	Score	712
Exons	1..859		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37900	Seq. ID	OJ991109_10.0203.C27
Gene No.	77917	Strand	-
Start	1	End	869
Name	OJ991109_10.0203.C27.o1.gs	Method	GENSCAN
Start	105	End	869
GI	none	Score	.74
Exons	105..869		

Seq. No.	37900	Seq. ID	OJ991109_10.0203.C27
Gene No.	77918	Strand	-
Start	1140	End	1331
Name	OJ991109_10.0203.C27.o1.tw	Method	TBLASTX:Wheat
Start	132	End	458
GI	none	Score	292
Exons	132..458		

Seq. No.	37900	Seq. ID	OJ991109_10.0203.C27
Gene No.	77918	Strand	-
Start	1140	End	1331
Name	OJ991109_10.0203.C27.o1.tm	Method	TBLASTX:Maize
Start	153	End	458

GI	none	Score	102
Exons	153..458, 249..458		
Seq. No.	37900	Seq. ID	OJ991109_10.0203.C27
Gene No.	77918	Strand	-
Start	1140	End	1331
Name	OJ991109_10.0203.C27.o2.tw	Method	TBLASTX:Wheat
Start	510	End	708
GI	none	Score	52
Exons	510..704, 510..707, 511..708		
Seq. No.	37900	Seq. ID	OJ991109_10.0203.C27
Gene No.	77918	Strand	-
Start	1140	End	1331
Name	OJ991109_10.0203.C27.o2.np	Method	AAT/NAP
Start	1140	End	1331
GI	4512231	Score	245
Exons	1140..1331		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		
Seq. No.	37901	Seq. ID	OJ991119_13.0207.C3
Gene No.	77919	Strand	-
Start	298	End	3788
Name	OJ991119_13.0207.C3.o1.gs	Method	GENSCAN
Start	298	End	3788
GI	none	Score	.74
Exons	298..425, 467..545, 624..1513, 1601..2096, 2193..2309, 3149..3193, 3750..3788		
Seq. No.	37902	Seq. ID	OJ991119_13.0207.C4
Gene No.	77920	Strand	+
Start	306	End	470
Name	OJ991119_13.0207.C4.o1.gs	Method	GENSCAN
Start	306	End	470
GI	none	Score	.86
Exons	306..470		
Seq. No.	37903	Seq. ID	OJ991119_13.0207.C7
Gene No.	77921	Strand	-
Start	29	End	1417
Name	OJ991119_13.0207.C7.o1.gs	Method	GENSCAN
Start	29	End	1417
GI	none	Score	.9
Exons	29..522, 1310..1417		
Seq. No.	37904	Seq. ID	OJ991119_13.0207.C8
Gene No.	77922	Strand	-
Start	1	End	430
Name	OJ991119_13.0207.C8.o1.tm	Method	TBLASTX:Maize
Start	1	End	372
GI	none	Score	96
Exons	1..93, 2..94, 133..372, 134..367		
Seq. No.	37904	Seq. ID	OJ991119_13.0207.C8
Gene No.	77922	Strand	-
Start	1	End	430
Name	OJ991119_13.0207.C8.o1.np	Method	AAT/NAP

Start	1	End	430
GI	2815292	Score	334
Exons	1..430		
GI Descrip.	(Y15962) Germin-like protein 1 [Hordeum vulgare]		

Seq. No.	37904	Seq. ID	OJ991119_13.0207.C8
Gene No.	77922	Strand	-
Start	1	End	430
Name	OJ991119_13.0207.C8.o1.tc	Method	TBLASTX:Cress
Start	1	End	357
GI	none	Score	98
Exons	1..93, 2..88, 130..213, 131..187, 205..357, 212..355		

Seq. No.	37904	Seq. ID	OJ991119_13.0207.C8
Gene No.	77922	Strand	-
Start	1	End	430
Name	OJ991119_13.0207.C8.o1.tw	Method	TBLASTX:Wheat
Start	2	End	357
GI	none	Score	90
Exons	2..55, 4..84, 4..96, 8..88, 133..354, 133..357		

Seq. No.	37904	Seq. ID	OJ991119_13.0207.C8
Gene No.	77922	Strand	-
Start	1	End	430
Name	OJ991119_13.0207.C8.o1.ts	Method	TBLASTX:Soybean
Start	4	End	357
GI	none	Score	79
Exons	4..93, 5..67, 130..225, 130..213, 205..357, 212..355		

Seq. No.	37904	Seq. ID	OJ991119_13.0207.C8
Gene No.	77922	Strand	-
Start	1	End	430
Name	OJ991119_13.0207.C8.o1.gs	Method	GENSCAN
Start	79	End	355
GI	none	Score	.95
Exons	79..355		

Seq. No.	37905	Seq. ID	OJ991119_13.0207.C9
Gene No.	77923	Strand	-
Start	1	End	621
Name	OJ991119_13.0207.C9.o1.np	Method	AAT/NAP
Start	1	End	603
GI	4115549	Score	179
Exons	1..112, 152..603		

GI Descrip. (AB012635) lectin-related polypeptide [Robinia pseudoacacia]

Seq. No.	37905	Seq. ID	OJ991119_13.0207.C9
Gene No.	77923	Strand	-
Start	1	End	621
Name	OJ991119_13.0207.C9.o1.gs	Method	GENSCAN
Start	7	End	621
GI	none	Score	.53
Exons	7..621		

Seq. No.	37905	Seq. ID	OJ991119_13.0207.C9
Gene No.	77923	Strand	-
Start	1	End	621

Name	OJ991119_13.0207.C9.o1.tm	Method	TBLASTX:Maize
Start	262	End	513
GI	none	Score	224
Exons	262..513, 263..475		
Seq. No.	37906	Seq. ID	OJ991119_13.0207.C11
Gene No.	77924	Strand	+
Start	1	End	108
Name	OJ991119_13.0207.C11.o1.np	Method	AAT/NAP
Start	1	End	108
GI	2943742	Score	110
Exons	1..108		
GI Descrip.	(AB002266) XA1 [Oryza sativa]		
Seq. No.	37907	Seq. ID	OJ991119_13.0207.C12
Gene No.	77925	Strand	+
Start	59	End	1520
Name	OJ991119_13.0207.C12.o1.gs	Method	GENSCAN
Start	59	End	1435
GI	none	Score	.96
Exons	59..70, 241..1146, 1225..1435		
Seq. No.	37907	Seq. ID	OJ991119_13.0207.C12
Gene No.	77925	Strand	+
Start	59	End	1520
Name	OJ991119_13.0207.C12.o1.np	Method	AAT/NAP
Start	238	End	1520
GI	4680179	Score	939
Exons	238..1323, 1357..1520		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	37907	Seq. ID	OJ991119_13.0207.C12
Gene No.	77925	Strand	+
Start	59	End	1520
Name	OJ991119_13.0207.C12.o2.tw	Method	TBLASTX:Wheat
Start	421	End	680
GI	none	Score	211
Exons	421..468, 481..678, 483..680		
Seq. No.	37907	Seq. ID	OJ991119_13.0207.C12
Gene No.	77925	Strand	+
Start	59	End	1520
Name	OJ991119_13.0207.C12.o1.tw	Method	TBLASTX:Wheat
Start	714	End	1065
GI	none	Score	293
Exons	714..908, 715..1065		
Seq. No.	37907	Seq. ID	OJ991119_13.0207.C12
Gene No.	77925	Strand	+
Start	59	End	1520
Name	OJ991119_13.0207.C12.o1.tm	Method	TBLASTX:Maize
Start	715	End	1020
GI	none	Score	232
Exons	715..1020, 729..845		
Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+



Start	1	End	1396
Name	OJ991119_13.0207.C13.o1.np	Method	AAT/NAP
Start	1	End	1396
GI	4680179	Score	1974
Exons	1..1396		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+
Start	1	End	1396
Name	OJ991119_13.0207.C13.o2.tw	Method	TBLASTX:Wheat
Start	2	End	415
GI	none	Score	532
Exons	2..415, 26..409, 31..414		

Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+
Start	1	End	1396
Name	OJ991119_13.0207.C13.o1.ts	Method	TBLASTX:Soybean
Start	203	End	463
GI	none	Score	290
Exons	203..463, 208..462		

Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+
Start	1	End	1396
Name	OJ991119_13.0207.C13.o2.tm	Method	TBLASTX:Maize
Start	261	End	553
GI	none	Score	75
Exons	261..413, 262..549, 263..553		

Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+
Start	1	End	1396
Name	OJ991119_13.0207.C13.o1.tw	Method	TBLASTX:Wheat
Start	422	End	1048
GI	none	Score	683
Exons	422..1048, 478..936, 515..1045		

Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+
Start	1	End	1396
Name	OJ991119_13.0207.C13.o1.tm	Method	TBLASTX:Maize
Start	602	End	1201
GI	none	Score	212
Exons	602..763, 610..756, 761..1201, 763..1185		

Seq. No.	37908	Seq. ID	OJ991119_13.0207.C13
Gene No.	77926	Strand	+
Start	1	End	1396
Name	OJ991119_13.0207.C13.o3.tw	Method	TBLASTX:Wheat
Start	1048	End	1381
GI	none	Score	319
Exons	1048..1317, 1049..1381, 1052..1360		

Seq. No.	37909	Seq. ID	OJ991119_13.0207.C14
Gene No.	77927	Strand	-

Start	1	End	619
Name	OJ991119_13.0207.C14.o1.np	Method	AAT/NAP
Start	1	End	619
GI	4680203	Score	598
Exons	1..619		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	37909	Seq. ID	OJ991119_13.0207.C14
Gene No.	77927	Strand	-
Start	1	End	619
Name	OJ991119_13.0207.C14.o1.ts	Method	TBLASTX:Soybean
Start	27	End	240
GI	none	Score	63
Exons	27..215, 27..239, 79..240		

Seq. No.	37909	Seq. ID	OJ991119_13.0207.C14
Gene No.	77927	Strand	-
Start	1	End	619
Name	OJ991119_13.0207.C14.o1.gs	Method	GENSCAN
Start	57	End	346
GI	none	Score	.7
Exons	57..346		

Seq. No.	37909	Seq. ID	OJ991119_13.0207.C14
Gene No.	77927	Strand	-
Start	1	End	619
Name	OJ991119_13.0207.C14.o1.tm	Method	TBLASTX:Maize
Start	75	End	519
GI	none	Score	71
Exons	75..266, 91..267, 276..518, 292..519		

Seq. No.	37909	Seq. ID	OJ991119_13.0207.C14
Gene No.	77927	Strand	-
Start	1	End	619
Name	OJ991119_13.0207.C14.o1.tw	Method	TBLASTX:Wheat
Start	127	End	522
GI	none	Score	60
Exons	127..216, 132..266, 313..408, 315..410, 417..521, 424..522		

Seq. No.	37909	Seq. ID	OJ991119_13.0207.C14
Gene No.	77927	Strand	-
Start	1	End	619
Name	OJ991119_13.0207.C14.o1.tc	Method	TBLASTX:Cress
Start	363	End	587
GI	none	Score	88
Exons	363..539, 364..516, 554..586, 555..587		

Seq. No.	37910	Seq. ID	OJ991119_13.0207.C15
Gene No.	77928	Strand	+
Start	1	End	4730
Name	OJ991119_13.0207.C15.o1.np	Method	AAT/NAP
Start	1	End	4730
GI	4680179	Score	440
Exons	1..955, 4656..4730		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37910	Seq. ID	OJ991119_13.0207.C15
----------	-------	---------	----------------------

Gene No.	77928	Strand	+
Start	1	End	4730
Name	OJ991119_13.0207.C15.o1.gs	Method	GENSCAN
Start	334	End	2727
GI	none	Score	.56
Exons	334..578, 1149..1177, 1458..1808, 2522..2727		

Seq. No.	37910	Seq. ID	OJ991119_13.0207.C15
Gene No.	77929	Strand	-
Start	3817	End	4187
Name	OJ991119_13.0207.C15.o2.gs	Method	GENSCAN
Start	3817	End	4187
GI	none	Score	.76
Exons	3817..3893, 4122..4187		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o1.gs	Method	GENSCAN
Start	255	End	5590
GI	none	Score	.53
Exons	255..329, 697..899, 1686..1805, 2331..2555, 2613..2783, 3129..3211, 3504..5590		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o1.np	Method	AAT/NAP
Start	1167	End	5915
GI	6466937	Score	1439
Exons	1167..1206, 2721..5915		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o4.tm	Method	TBLASTX:Maize
Start	3475	End	4302
GI	none	Score	127
Exons	3475..3597, 3664..3906, 4006..4077, 4168..4302		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o1.tw	Method	TBLASTX:Wheat
Start	4287	End	4773
GI	none	Score	373
Exons	4287..4769, 4291..4773		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o2.ts	Method	TBLASTX:Soybean
Start	4330	End	4530
GI	none	Score	213
Exons	4330..4530, 4333..4530		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o1.tm	Method	TBLASTX:Maize
Start	4351	End	4827
GI	none	Score	591
Exons	4351..4827, 4356..4457, 4497..4808		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o1.ts	Method	TBLASTX:Soybean
Start	4750	End	5109
GI	none	Score	305
Exons	4750..5109, 4767..5108		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o2.tw	Method	TBLASTX:Wheat
Start	4825	End	5223
GI	none	Score	331
Exons	4825..5223, 4857..5189		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o2.tm	Method	TBLASTX:Maize
Start	4842	End	5401
GI	none	Score	67
Exons	4842..5123, 4846..5373, 4860..5372, 5209..5394, 5232..5399, 5246..5401		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o3.ts	Method	TBLASTX:Soybean
Start	5131	End	5376
GI	none	Score	204
Exons	5131..5376, 5136..5339		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o3.tm	Method	TBLASTX:Maize
Start	5404	End	5814
GI	none	Score	169
Exons	5404..5547, 5412..5543, 5563..5814, 5563..5787, 5709..5813		

Seq. No.	37911	Seq. ID	OJ991119_13.0207.C16
Gene No.	77930	Strand	+
Start	255	End	5915
Name	OJ991119_13.0207.C16.o3.tw	Method	TBLASTX:Wheat
Start	5569	End	5915
GI	none	Score	299
Exons	5569..5913, 5569..5859, 5700..5915		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77931	Strand	+
Start	1	End	633
Name	OJ991119_13.0207.C17.o1.np	Method	AAT/NAP
Start	1	End	633
GI	5080762	Score	257
Exons	1..633		
GI Descrip.	(AC007203) Similar to retrotransposon polyprotein [Arabidopsis thaliana]		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77932	Strand	+
Start	8017	End	8484
Name	OJ991119_13.0207.C17.o2.gs	Method	GENSCAN
Start	8017	End	8484
GI	none	Score	.72
Exons	8017..8484		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o1.tw	Method	TBLASTX:Wheat
Start	74	End	10519
GI	none	Score	79
Exons	74..217, 9893..10519, 9894..10517		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o1.tm	Method	TBLASTX:Maize
Start	98	End	10339
GI	none	Score	72
Exons	98..217, 338..376, 9740..10180, 9753..10013, 10083..10178, 10178..10339, 10185..10331		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o5.tm	Method	TBLASTX:Maize
Start	218	End	9703
GI	none	Score	138
Exons	218..337, 413..646, 542..625, 671..733, 706..732, 9557..9703		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o6.tw	Method	TBLASTX:Wheat
Start	254	End	9892
GI	none	Score	67
Exons	254..343, 329..376, 428..577, 9560..9892, 9561..9800, 9785..9865		

Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o8.tm	Method	TBLASTX:Maize
Start	2663	End	2929

GI	none	Score	215
Exons	2663..2929, 2677..2835		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o7.tm	Method	TBLASTX:Maize
Start	5883	End	6347
GI	none	Score	38
Exons	5883..5969, 5944..6120, 5945..6178, 5946..6347		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o7.tw	Method	TBLASTX:Wheat
Start	5967	End	6332
GI	none	Score	276
Exons	5967..6332, 5975..6202		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o2.np	Method	AAT/NAP
Start	9515	End	14657
GI	4680179	Score	4913
Exons	9515..12704, 14635..14657		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o3.tm	Method	TBLASTX:Maize
Start	10388	End	10679
GI	none	Score	93
Exons	10388..10678, 10390..10677, 10392..10679		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o2.ts	Method	TBLASTX:Soybean
Start	10478	End	10733
GI	none	Score	158
Exons	10478..10732, 10479..10733		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o3.tw	Method	TBLASTX:Wheat
Start	10526	End	11002
GI	none	Score	255
Exons	10526..11002, 10527..10781, 10538..10972		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o2.tw	Method	TBLASTX:Wheat
Start	11003	End	11518

GI	none	Score	219
Exons	11003..11518, 11093..11440, 11178..11486		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o2.tm	Method	TBLASTX:Maize
Start	11084	End	11446
GI	none	Score	170
Exons	11084..11443, 11088..11393, 11093..11446, 11178..11444		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o3.ts	Method	TBLASTX:Soybean
Start	11267	End	11512
GI	none	Score	74
Exons	11267..11512, 11268..11489		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o4.tm	Method	TBLASTX:Maize
Start	11483	End	11983
GI	none	Score	39
Exons	11483..11803, 11526..11576, 11601..11732, 11804..11983		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o5.tw	Method	TBLASTX:Wheat
Start	11519	End	11821
GI	none	Score	236
Exons	11519..11821, 11520..11801, 11740..11814		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o1.ts	Method	TBLASTX:Soybean
Start	11534	End	11929
GI	none	Score	144
Exons	11534..11893, 11535..11798, 11885..11929, 11897..11929		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o4.tw	Method	TBLASTX:Wheat
Start	11870	End	12351
GI	none	Score	124
Exons	11870..12073, 11913..12074, 12067..12351, 12073..12240, 12077..12247		
Seq. No.	37912	Seq. ID	OJ991119_13.0207.C17
Gene No.	77933	Strand	-
Start	9515	End	14657
Name	OJ991119_13.0207.C17.o6.tm	Method	TBLASTX:Maize
Start	12067	End	12340

GI	none	Score	129
Exons	12067..12339, 12074..12241, 12088..12243, 12302..12340		
Seq. No.	37913	Seq. ID	OJ991119_13.0207.C19
Gene No.	77934	Strand	+
Start	1	End	4925
Name	OJ991119_13.0207.C19.ol.np	Method	AAT/NAP
Start	1	End	4925
GI	5852180	Score	464
Exons	1..21, 3372..3425, 4405..4523, 4575..4925		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	37913	Seq. ID	OJ991119_13.0207.C19
Gene No.	77935	Strand	-
Start	109	End	4660
Name	OJ991119_13.0207.C19.ol.gs	Method	GENSCAN
Start	109	End	4660
GI	none	Score	.49
Exons	109..770, 1137..2173, 2453..2520, 3487..3582, 4499..4660		
Seq. No.	37913	Seq. ID	OJ991119_13.0207.C19
Gene No.	77935	Strand	-
Start	109	End	4660
Name	OJ991119_13.0207.C19.ol.gp	Method	AAT/GAP
Start	3274	End	3655
GI	uC-osflcyp033a04b1	Score	687
Exons	3274..3655		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	37914	Seq. ID	OJ991119_13.0207.C20
Gene No.	77936	Strand	+
Start	1	End	2522
Name	OJ991119_13.0207.C20.ol.np	Method	AAT/NAP
Start	1	End	2522
GI	5852180	Score	584
Exons	1..31, 227..294, 1277..1394, 1446..1870, 2476..2522		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	37914	Seq. ID	OJ991119_13.0207.C20
Gene No.	77936	Strand	+
Start	1	End	2522
Name	OJ991119_13.0207.C20.ol.gs	Method	GENSCAN
Start	1439	End	1992
GI	none	Score	.93
Exons	1439..1992		
Seq. No.	37914	Seq. ID	OJ991119_13.0207.C20
Gene No.	77937	Strand	-
Start	143	End	524
Name	OJ991119_13.0207.C20.ol.gp	Method	AAT/GAP
Start	143	End	524
GI	uC-osflcyp033a04b1	Score	695
Exons	143..524		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		



Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77938	Strand	+
Start	1	End	3933
Name	OJ991119_13.0207.C21.o3.np	Method	AAT/NAP
Start	1	End	3933
GI	4680183	Score	182
Exons	1..119, 3164..3234, 3844..3933		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77939	Strand	+
Start	4719	End	5109
Name	OJ991119_13.0207.C21.o4.np	Method	AAT/NAP
Start	4719	End	5109
GI	6815109	Score	125
Exons	4719..5109		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77940	Strand	-
Start	1	End	1233
Name	OJ991119_13.0207.C21.o1.np	Method	AAT/NAP
Start	1	End	1233
GI	4680179	Score	1981
Exons	1..1233		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77940	Strand	-
Start	1	End	1233
Name	OJ991119_13.0207.C21.o1.gs	Method	GENSCAN
Start	45	End	1233
GI	none	Score	.81
Exons	45..1233		

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77941	Strand	-
Start	1490	End	4849
Name	OJ991119_13.0207.C21.o1.tm	Method	TBLASTX:Maize
Start	439	End	735
GI	none	Score	43
Exons	439..735, 451..507, 548..694		

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77941	Strand	-
Start	1490	End	4849
Name	OJ991119_13.0207.C21.o1.tw	Method	TBLASTX:Wheat
Start	616	End	979
GI	none	Score	107
Exons	616..975, 617..850, 625..945, 875..979		

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77941	Strand	-
Start	1490	End	4849
Name	OJ991119_13.0207.C21.o2.gs	Method	GENSCAN
Start	1490	End	4849
GI	none	Score	.42

Exons 1490..1819, 1863..2456, 3707..3826, 4676..4849

Seq. No.	37915	Seq. ID	OJ991119_13.0207.C21
Gene No.	77941	Strand	-
Start	1490	End	4849
Name	OJ991119_13.0207.C21.o2.np	Method	AAT/NAP
Start	1493	End	2390
GI	5042448	Score	1324
Exons	1493..1762, 1803..2390		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o1.np	Method	AAT/NAP
Start	1	End	3640
GI	5295971	Score	2155
Exons	1..54, 974..3640		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o4.ts	Method	TBLASTX:Soybean
Start	999	End	1333
GI	none	Score	248
Exons	999..1307, 1031..1333, 1095..1175		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o2.tw	Method	TBLASTX:Wheat
Start	1134	End	1694
GI	none	Score	341
Exons	1134..1595, 1355..1594, 1599..1694		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o3.tm	Method	TBLASTX:Maize
Start	1341	End	1765
GI	none	Score	373
Exons	1341..1688, 1355..1687, 1703..1765		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o2.ts	Method	TBLASTX:Soybean
Start	1368	End	1843
GI	none	Score	317
Exons	1368..1679, 1373..1636, 1688..1843		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+

Start	1	End	3640
Name	OJ991119_13.0207.C22.o3.tc	Method	TBLASTX:Cress
Start	1407	End	1827
GI	none	Score	167
Exons	1407..1676, 1523..1666, 1715..1825, 1720..1827		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o1.ts	Method	TBLASTX:Soybean
Start	2159	End	2662
GI	5509260	Score	433
Exons	2159..2662, 2197..2448, 2488..2580		
GI Descrip.	-		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o2.tm	Method	TBLASTX:Maize
Start	2186	End	2506
GI	none	Score	404
Exons	2186..2506, 2197..2505		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o2.tc	Method	TBLASTX:Cress
Start	2272	End	2545
GI	none	Score	243
Exons	2272..2457, 2273..2545		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o1.tw	Method	TBLASTX:Wheat
Start	2326	End	2872
GI	none	Score	313
Exons	2326..2457, 2327..2671, 2488..2559, 2663..2872		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o4.tm	Method	TBLASTX:Maize
Start	2507	End	2902
GI	none	Score	256
Exons	2507..2902		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o1.tm	Method	TBLASTX:Maize
Start	2969	End	3424
GI	none	Score	275
Exons	2969..3208, 2972..3181, 3194..3424, 3223..3423		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+

Start	1	End	3640
Name	OJ991119_13.0207.C22.o1.tc	Method	TBLASTX:Cress
Start	2996	End	3562
GI	none	Score	190
Exons	2996..3190, 3034..3180, 3200..3307, 3234..3305, 3302..3424, 3304..3438, 3422..3562, 3463..3561		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o3.ts	Method	TBLASTX:Soybean
Start	3029	End	3630
GI	none	Score	133
Exons	3029..3202, 3178..3423, 3218..3574, 3493..3531, 3565..3630		

Seq. No.	37916	Seq. ID	OJ991119_13.0207.C22
Gene No.	77942	Strand	+
Start	1	End	3640
Name	OJ991119_13.0207.C22.o3.tw	Method	TBLASTX:Wheat
Start	3191	End	3636
GI	none	Score	129
Exons	3191..3427, 3328..3423, 3425..3562, 3571..3636		

Seq. No.	37917	Seq. ID	OJ991119_13.0207.C26
Gene No.	77943	Strand	+
Start	3241	End	4291
Name	OJ991119_13.0207.C26.o1.np	Method	AAT/NAP
Start	3241	End	4291
GI	4505323	Score	107
Exons	3241..3414, 3520..3573, 4172..4291		
GI Descrip.	Wiskott-Aldrich syndrome-like gi 2116984 dbj BAA20128  (D88460) N-WASP [Homo sapiens]		

Seq. No.	37917	Seq. ID	OJ991119_13.0207.C26
Gene No.	77944	Strand	-
Start	2585	End	4291
Name	OJ991119_13.0207.C26.o2.gs	Method	GENSCAN
Start	2585	End	4121
GI	none	Score	.49
Exons	2585..2646, 3195..3437, 3654..3851, 3881..4121		

Seq. No.	37917	Seq. ID	OJ991119_13.0207.C26
Gene No.	77944	Strand	-
Start	2585	End	4291
Name	OJ991119_13.0207.C26.o2.np	Method	AAT/NAP
Start	3826	End	4291
GI	4505323	Score	72
Exons	3826..4156, 4220..4291		
GI Descrip.	Wiskott-Aldrich syndrome-like gi 2116984 dbj BAA20128  (D88460) N-WASP [Homo sapiens]		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o1.gs	Method	GENSCAN
Start	952	End	5869
GI	none	Score	.81

Exons 952..1551, 1570..1742, 1949..2033, 2306..2789, 2932..3009, 3585..4423, 4571..4660, 4766..5869

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o1.np	Method	AAT/NAP
Start	1030	End	5698
GI	6815097	Score	3424
Exons	1030..1897, 2403..3013, 3128..4791, 4933..5698		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o2.tc	Method	TBLASTX:Cress
Start	1096	End	1368
GI	none	Score	187
Exons	1096..1368		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o1.ts	Method	TBLASTX:Soybean
Start	4319	End	4764
GI	5509260	Score	189
Exons	4319..4657, 4373..4525, 4684..4764, 4685..4756		
GI Descrip.	-		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o1.tc	Method	TBLASTX:Cress
Start	4372	End	4633
GI	none	Score	188
Exons	4372..4632, 4373..4633		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o1.tw	Method	TBLASTX:Wheat
Start	4412	End	5218
GI	none	Score	152
Exons	4412..4651, 4685..4771, 4793..4870, 5138..5218		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o3.tm	Method	TBLASTX:Maize
Start	4421	End	4855
GI	none	Score	138
Exons	4421..4645, 4685..4855		

Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919

Name	OJ991119_13.0207.C27.o2.ts	Method	TBLASTX:Soybean
Start	5185	End	5773
GI	none	Score	213
Exons	5185..5292, 5189..5551, 5347..5466, 5657..5773		
Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o2.tm	Method	TBLASTX:Maize
Start	5207	End	5497
GI	none	Score	306
Exons	5207..5497, 5218..5496		
Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o2.tw	Method	TBLASTX:Wheat
Start	5297	End	5551
GI	none	Score	185
Exons	5297..5551, 5332..5523		
Seq. No.	37918	Seq. ID	OJ991119_13.0207.C27
Gene No.	77945	Strand	+
Start	952	End	5919
Name	OJ991119_13.0207.C27.o1.tm	Method	TBLASTX:Maize
Start	5498	End	5919
GI	none	Score	148
Exons	5498..5593, 5503..5595, 5650..5877, 5654..5875, 5884..5919		
Seq. No.	37919	Seq. ID	OJ991119_13.0207.C29
Gene No.	77946	Strand	+
Start	1	End	510
Name	OJ991119_13.0207.C29.o1.np	Method	AAT/NAP
Start	1	End	510
GI	5852180	Score	60
Exons	1..187, 416..510		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	37919	Seq. ID	OJ991119_13.0207.C29
Gene No.	77947	Strand	+
Start	421	End	474
Name	OJ991119_13.0207.C29.o1.gs	Method	GENSCAN
Start	421	End	474
GI	none	Score	.82
Exons	421..474		
Seq. No.	37919	Seq. ID	OJ991119_13.0207.C29
Gene No.	77948	Strand	-
Start	323	End	510
Name	OJ991119_13.0207.C29.o1.gp	Method	AAT/GAP
Start	323	End	510
GI	uC-osflcyp033a04b1	Score	322
Exons	323..510		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31

Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o1.np	Method	AAT/NAP
Start	1	End	1305
GI	4680179	Score	1733
Exons	1..1305		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31
Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o1.tm	Method	TBLASTX:Maize
Start	4	End	459
GI	none	Score	142
Exons	4..459, 41..325		

Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31
Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o1.tw	Method	TBLASTX:Wheat
Start	79	End	480
GI	none	Score	314
Exons	79..480, 80..478		

Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31
Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o1.ts	Method	TBLASTX:Soybean
Start	193	End	588
GI	none	Score	202
Exons	193..552, 194..484, 512..550, 556..588, 557..586		

Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31
Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o2.tm	Method	TBLASTX:Maize
Start	475	End	906
GI	none	Score	79
Exons	475..906, 482..676, 694..867		

Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31
Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o2.tw	Method	TBLASTX:Wheat
Start	529	End	1015
GI	none	Score	245
Exons	529..906, 572..1015, 961..1011		

Seq. No.	37920	Seq. ID	OJ991119_13.0207.C31
Gene No.	77949	Strand	-
Start	1	End	1305
Name	OJ991119_13.0207.C31.o1.tc	Method	TBLASTX:Cress
Start	565	End	882
GI	none	Score	180
Exons	565..882		

Seq. No.	37921	Seq. ID	OJ991119_13.0207.C32
----------	-------	---------	----------------------

Gene No.	77950	Strand	+
Start	942	End	2003
Name	OJ991119_13.0207.C32.o2.np	Method	AAT/NAP
Start	942	End	2003
GI	4680186	Score	325
Exons	942..995, 1832..2003		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	37921	Seq. ID	OJ991119_13.0207.C32
Gene No.	77951	Strand	-
Start	32	End	1965
Name	OJ991119_13.0207.C32.o1.gs	Method	GENSCAN
Start	32	End	1787
GI	none	Score	.74
Exons	32..446, 534..695, 1716..1787		

Seq. No.	37921	Seq. ID	OJ991119_13.0207.C32
Gene No.	77951	Strand	-
Start	32	End	1965
Name	OJ991119_13.0207.C32.o1.gp	Method	AAT/GAP
Start	1584	End	1965
GI	uC-osflcyp033a04b1	Score	695
Exons	1584..1965		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	37922	Seq. ID	OJ991119_13.0207.C36
Gene No.	77952	Strand	-
Start	1	End	918
Name	OJ991119_13.0207.C36.o1.np	Method	AAT/NAP
Start	1	End	918
GI	6742729	Score	751
Exons	1..918		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	37922	Seq. ID	OJ991119_13.0207.C36
Gene No.	77952	Strand	-
Start	1	End	918
Name	OJ991119_13.0207.C36.o1.tw	Method	TBLASTX:Wheat
Start	9	End	758
GI	none	Score	50
Exons	9..209, 19..156, 214..714, 216..758		

Seq. No.	37922	Seq. ID	OJ991119_13.0207.C36
Gene No.	77952	Strand	-
Start	1	End	918
Name	OJ991119_13.0207.C36.o1.gs	Method	GENSCAN
Start	41	End	911
GI	none	Score	.57
Exons	41..911		

Seq. No.	37922	Seq. ID	OJ991119_13.0207.C36
Gene No.	77952	Strand	-
Start	1	End	918
Name	OJ991119_13.0207.C36.o1.tc	Method	TBLASTX:Cress
Start	45	End	471
GI	none	Score	48



Exons	45..209, 49..156, 214..471, 216..467		
Seq. No.	37922	Seq. ID	OJ991119_13.0207.C36
Gene No.	77952	Strand	-
Start	1	End	918
Name	OJ991119_13.0207.C36.o1.tm	Method	TBLASTX:Maize
Start	402	End	717
GI	none	Score	94
Exons	402..716, 420..629, 421..717		

Seq. No.	37922	Seq. ID	OJ991119_13.0207.C36
Gene No.	77952	Strand	-
Start	1	End	918
Name	OJ991119_13.0207.C36.o1.ts	Method	TBLASTX:Soybean
Start	414	End	797
GI	none	Score	58
Exons	414..659, 415..540, 669..797		

Seq. No.	37923	Seq. ID	OJ991119_13.0207.C37
Gene No.	77953	Strand	+
Start	117	End	1425
Name	OJ991119_13.0207.C37.o1.np	Method	AAT/NAP
Start	117	End	1425
GI	5777617	Score	104
Exons	117..143, 1327..1425		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	37923	Seq. ID	OJ991119_13.0207.C37
Gene No.	77954	Strand	-
Start	4046	End	6157
Name	OJ991119_13.0207.C37.o2.np	Method	AAT/NAP
Start	4046	End	6157
GI	6721512	Score	113
Exons	4046..4106, 4149..4287, 4314..4441, 6126..6157		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37924	Seq. ID	OJ991119_13.0207.C38
Gene No.	77955	Strand	+
Start	1256	End	2144
Name	OJ991119_13.0207.C38.o1.np	Method	AAT/NAP
Start	1256	End	2144
GI	6815099	Score	97
Exons	1256..1392, 1964..2144		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37925	Seq. ID	OJ991119_13.0207.C39
Gene No.	77956	Strand	+
Start	1	End	541
Name	OJ991119_13.0207.C39.o1.np	Method	AAT/NAP
Start	1	End	541
GI	3193290	Score	179
Exons	1..113, 156..541		
GI Descrip.	(AF069298) contains similarity to a protein kinase domain (Pfam: pkinase.hmm, score: 165.48), to legume lectins beta domain (Pfam: lectin_legB.hmm, score: 125.64) and legume lectins alpha domain (Pfam: lectin_legA.hmm, score: 16.72) [Arabido...		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77957	Strand	+
Start	2374	End	3183
Name	OJ991119_13.0207.C40.o1.np	Method	AAT/NAP
Start	2374	End	3150
GI	6729489	Score	346
Exons	2374..2695, 2731..3150		
GI Descrip.	(AL132966) receptor lectin kinase-like protein [Arabidopsis thaliana]		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77957	Strand	+
Start	2374	End	3183
Name	OJ991119_13.0207.C40.o1.gs	Method	GENSCAN
Start	2425	End	3183
GI	none	Score	.61
Exons	2425..3183		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77958	Strand	+
Start	10709	End	10883
Name	OJ991119_13.0207.C40.o2.gp	Method	AAT/GAP
Start	10709	End	10883
GI	LIB3433-026-P1-K1-C1	Score	237
Exons	10709..10883		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77959	Strand	+
Start	16499	End	22212
Name	OJ991119_13.0207.C40.o3.np	Method	AAT/NAP
Start	16499	End	22212
GI	2943742	Score	403
Exons	16499..16863, 18828..19078, 21749..21836, 22143..22212		
GI Descrip.	(AB002266) XA1 [Oryza sativa]		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77959	Strand	+
Start	16499	End	22212
Name	OJ991119_13.0207.C40.o4.gs	Method	GENSCAN
Start	16499	End	19097
GI	none	Score	.96
Exons	16499..16802; 18799..19097		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77960	Strand	-
Start	1	End	80
Name	OJ991119_13.0207.C40.o1.gp	Method	AAT/GAP
Start	1	End	80
GI	LIB3477-003-P1-K1-E9	Score	108
Exons	1..80		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
----------	-------	---------	----------------------

Gene No.	77961	Strand	-
Start	6134	End	14716
Name	OJ991119_13.0207.C40.o3.gs	Method	GENSCAN
Start	6134	End	14716
GI	none	Score	.52
Exons	6134..6637, 6728..6921, 7340..7487, 8419..8878, 8898..9177, 10958..11705, 12201..12618, 12644..13382, 13625..13893, 14261..14292, 14381..14716		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77961	Strand	-
Start	6134	End	14716
Name	OJ991119_13.0207.C40.o2.np	Method	AAT/NAP
Start	6194	End	13506
GI	6466937	Score	2112
Exons	6194..8029, 11000..11671, 11721..12897, 12937..13506		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o6.tw	Method	TBLASTX:Wheat
Start	2371	End	2685
GI	none	Score	132
Exons	2371..2526, 2410..2499, 2547..2684, 2557..2685		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o1.tc	Method	TBLASTX:Cress
Start	2374	End	2958
GI	none	Score	198
Exons	2374..2565, 2374..2493, 2385..2537, 2553..2687, 2557..2685, 2752..2802, 2824..2958		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o3.ts	Method	TBLASTX:Soybean
Start	2374	End	2958
GI	none	Score	241
Exons	2374..2685, 2487..2681, 2806..2958		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o5.tm	Method	TBLASTX:Maize
Start	2434	End	2787
GI	none	Score	394
Exons	2434..2673, 2434..2499, 2436..2672, 2737..2775, 2752..2787		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o2.tm	Method	TBLASTX:Maize
Start	6230	End	6868

GI	none	Score	54
Exons	6230..6868, 6299..6508, 6543..6821		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o3.tw	Method	TBLASTX:Wheat
Start	6488	End	6844
GI	none	Score	176
Exons	6488..6844, 6543..6842		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o4.tw	Method	TBLASTX:Wheat
Start	6899	End	7291
GI	none	Score	34
Exons	6899..7291, 6912..6932, 6920..7291		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o1.tm	Method	TBLASTX:Maize
Start	6909	End	7547
GI	none	Score	278
Exons	6909..7313, 6911..7315, 6914..7315, 7326..7547, 7327..7545		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o2.ts	Method	TBLASTX:Soybean
Start	7139	End	7511
GI	none	Score	66
Exons	7139..7309, 7149..7304, 7326..7511, 7327..7410		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o1.tw	Method	TBLASTX:Wheat
Start	7383	End	7775
GI	none	Score	141
Exons	7383..7775, 7387..7671		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o6.tm	Method	TBLASTX:Maize
Start	7548	End	7970
GI	none	Score	157
Exons	7548..7778, 7782..7970, 7801..7968, 7839..7970		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o3.tm	Method	TBLASTX:Maize
Start	7971	End	11472
GI	none	Score	86

Exons 7971..8033, 11001..11468, 11010..11201, 11017..11220,  
11253..11462, 11287..11472

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o2.tw	Method	TBLASTX:Wheat
Start	11091	End	11492
GI	none	Score	55
Exons	11091..11492, 11136..11201		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o1.ts	Method	TBLASTX:Soybean
Start	11217	End	11564
GI	none	Score	86
Exons	11217..11564, 11256..11459		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o9.tm	Method	TBLASTX:Maize
Start	11487	End	11645
GI	none	Score	85
Exons	11487..11645, 11514..11633, 11515..11637		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o5.tw	Method	TBLASTX:Wheat
Start	11541	End	12072
GI	none	Score	79
Exons	11541..11717, 11572..11718, 11707..12072, 11723..11992		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o4.tm	Method	TBLASTX:Maize
Start	11646	End	12126
GI	none	Score	169
Exons	11646..11723, 11716..12126, 11719..12114		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o4.ts	Method	TBLASTX:Soybean
Start	11722	End	12036
GI	none	Score	67
Exons	11722..11913, 11722..12036		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o8.tm	Method	TBLASTX:Maize
Start	12279	End	12587
GI	none	Score	105

Exons	12279..12587, 12306..12479		
Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o7.tm	Method	TBLASTX:Maize
Start	12751	End	13212
GI	none	Score	60
Exons	12751..12978, 12761..12949, 13036..13212, 13055..13159		

Seq. No.	37926	Seq. ID	OJ991119_13.0207.C40
Gene No.	77962	Strand	-
Start	18897	End	22212
Name	OJ991119_13.0207.C40.o4.np	Method	AAT/NAP
Start	18897	End	22212
GI	6721512	Score	172
Exons	18897..18952, 19073..19152, 20457..20485, 20527..20660, 20688..20811, 22189..22212		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	37927	Seq. ID	OJ991119_13.0207.C41
Gene No.	77963	Strand	+
Start	1589	End	2263
Name	OJ991119_13.0207.C41.o1.gs	Method	GENSCAN
Start	1589	End	2249
GI	none	Score	.43
Exons	1589..2249		

Seq. No.	37927	Seq. ID	OJ991119_13.0207.C41
Gene No.	77963	Strand	+
Start	1589	End	2263
Name	OJ991119_13.0207.C41.o1.np	Method	AAT/NAP
Start	1642	End	2263
GI	2943742	Score	692
Exons	1642..2263		
GI Descrip.	(AB002266) XA1 [Oryza sativa]		

Seq. No.	37927	Seq. ID	OJ991119_13.0207.C41
Gene No.	77963	Strand	+
Start	1589	End	2263
Name	OJ991119_13.0207.C41.o1.tm	Method	TBLASTX:Maize
Start	1992	End	2258
GI	none	Score	166
Exons	1992..2150, 1994..2140, 2171..2257, 2175..2258		

Seq. No.	37927	Seq. ID	OJ991119_13.0207.C41
Gene No.	77963	Strand	+
Start	1589	End	2263
Name	OJ991119_13.0207.C41.o1.ts	Method	TBLASTX:Soybean
Start	2003	End	2258
GI	none	Score	79
Exons	2003..2062, 2004..2063, 2070..2258		

Seq. No.	37928	Seq. ID	OJ991119_13.0207.C42
Gene No.	77964	Strand	+
Start	1	End	1582
Name	OJ991119_13.0207.C42.o1.np	Method	AAT/NAP

Start 1  
GI 2943742  
Exons 1..204, 980..1582  
GI Descrip. (AB002266) XA1 [Oryza sativa]

End 1582  
Score 471

Seq. No. 37928  
Gene No. 77964  
Start 1  
Name OJ991119\_13.0207.C42.o1.gs  
Start 30  
GI none  
Exons 30..163, 239..441, 1246..1501

Seq. ID OJ991119\_13.0207.C42  
Strand +  
End 1582  
Method GENSCAN  
End 1501  
Score .47

Seq. No. 37929  
Gene No. 77965  
Start 505  
Name OJ991119\_13.0207.C43.o1.gs  
Start 505  
GI none  
Exons 505..652, 912..994

Seq. ID OJ991119\_13.0207.C43  
Strand +  
End 994  
Method GENSCAN  
End 994  
Score .88

Seq. No. 37930  
Gene No. 77966  
Start 267  
Name OJ991119\_13.0207.C44.o1.gs  
Start 267  
GI none  
Exons 267..383, 462..559, 1090..1177

Seq. ID OJ991119\_13.0207.C44  
Strand +  
End 1177  
Method GENSCAN  
End 1177  
Score .61

Seq. No. 37931  
Gene No. 77967  
Start 1  
Name OJ991119\_13.0207.C46.o1.np  
Start 1  
GI 2943742  
Exons 1..378, 415..587  
GI Descrip. (AB002266) XA1 [Oryza sativa]

Seq. ID OJ991119\_13.0207.C46  
Strand -  
End 587  
Method AAT/NAP  
End 587  
Score 488

Seq. No. 37931  
Gene No. 77967  
Start 1  
Name OJ991119\_13.0207.C46.o1.gs  
Start 127  
GI none  
Exons 127..396, 450..473

Seq. ID OJ991119\_13.0207.C46  
Strand -  
End 587  
Method GENSCAN  
End 473  
Score .56

Seq. No. 37932  
Gene No. 77968  
Start 129  
Name OJ991029\_11.0207.C3.o1.gp  
Start 129  
GI 2311748  
Exons 129..224

Seq. ID OJ991029\_11.0207.C3  
Strand +  
End 224  
Method AAT/GAP  
End 224  
Score 142

Seq. No. 37933  
Gene No. 77969  
Start 148

Seq. ID OJ991029\_11.0207.C7  
Strand -  
End 283

Name	OJ991029_11.0207.C7.o1.gs	Method	GENSCAN
Start	148	End	283
GI	none	Score	.45
Exons	148..283		
Seq. No.	37934	Seq. ID	OJ991029_11.0207.C8
Gene No.	77970	Strand	+
Start	2871	End	3006
Name	OJ991029_11.0207.C8.o2.gp	Method	AAT/GAP
Start	2871	End	3006
GI	LIB3474-009-P1-K1-F11	Score	229
Exons	2871..3006		
GI Descrip.	'4455244/emb CAB36743.1  6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		
Seq. No.	37934	Seq. ID	OJ991029_11.0207.C8
Gene No.	77971	Strand	-
Start	539	End	7740
Name	OJ991029_11.0207.C8.o1.tm	Method	TBLASTX:Maize
Start	527	End	1260
GI	none	Score	245
Exons	527..772, 527..769, 592..780, 846..911, 847..912, 847..909, 992..1033, 993..1061, 993..1061, 994..1074, 1129..1260, 1129..1236, 1140..1256		
Seq. No.	37934	Seq. ID	OJ991029_11.0207.C8
Gene No.	77971	Strand	-
Start	539	End	7740
Name	OJ991029_11.0207.C8.o1.gp	Method	AAT/GAP
Start	539	End	2497
GI	29278_1.R1084	Score	1233
Exons	539..768, 847..910, 994..1050, 1141..1239, 2146..2190, 2291..2497		
GI Descrip.	'3758859/emb CAB11144.1  3.0e-15 (Z98551) predicted using hexExon; MAL3P6.7 (PFC0730w), Hypothetical protein, len: 222 aa [Plasmodium falciparum]'		
Seq. No.	37934	Seq. ID	OJ991029_11.0207.C8
Gene No.	77971	Strand	-
Start	539	End	7740
Name	OJ991029_11.0207.C8.o1.tc	Method	TBLASTX:Cress
Start	664	End	1238
GI	none	Score	96
Exons	664..780, 668..769, 847..909, 851..895, 993..1049, 1132..1230, 1140..1232, 1140..1238		
Seq. No.	37934	Seq. ID	OJ991029_11.0207.C8
Gene No.	77971	Strand	-
Start	539	End	7740
Name	OJ991029_11.0207.C8.o1.ts	Method	TBLASTX:Soybean
Start	667	End	1269
GI	none	Score	81
Exons	667..780, 668..772, 847..912, 847..909, 993..1049, 1140..1259, 1140..1238, 1141..1269		
Seq. No.	37934	Seq. ID	OJ991029_11.0207.C8
Gene No.	77971	Strand	-



Start	539	End	7740
Name	OJ991029_11.0207.C8.o1.gs	Method	GENSCAN
Start	994	End	7740
GI	none	Score	.47
Exons	994..1050, 1141..1239, 1512..1561, 3168..3263, 3961..4029, 7126..7226, 7668..7740		

Seq. No.	37935	Seq. ID	OJ991029_11.0207.C9
Gene No.	77972	Strand	-
Start	26	End	6838
Name	OJ991029_11.0207.C9.o1.gs	Method	GENSCAN
Start	26	End	6838
GI	none	Score	.5
Exons	26..585, 662..777, 2421..2452, 3468..3530, 4260..4306, 4451..4514, 4578..4697, 5383..5458, 5545..5713, 5747..5810, 6728..6838		

Seq. No.	37935	Seq. ID	OJ991029_11.0207.C9
Gene No.	77972	Strand	-
Start	26	End	6838
Name	OJ991029_11.0207.C9.o2.np	Method	AAT/NAP
Start	3045	End	4724
GI	6539588	Score	178
Exons	3045..3071, 4423..4724		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	37936	Seq. ID	OJ991029_11.0207.C10
Gene No.	77973	Strand	+
Start	1365	End	1457
Name	OJ991029_11.0207.C10.o1.gs	Method	GENSCAN
Start	1365	End	1457
GI	none	Score	.5
Exons	1365..1457		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77974	Strand	+
Start	1	End	4394
Name	OJ991029_11.0207.C11.o1.np	Method	AAT/NAP
Start	1	End	4394
GI	1657851	Score	45
Exons	1..57, 1182..1293, 4364..4394		
GI Descrip.	(U73214) cold acclimation protein WCOR518 [Triticum aestivum]		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77974	Strand	+
Start	1	End	4394
Name	OJ991029_11.0207.C11.o1.gs	Method	GENSCAN
Start	1317	End	3781
GI	none	Score	.78
Exons	1317..1457, 1529..1750, 2012..2081, 3654..3781		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77975	Strand	+
Start	8003	End	8580
Name	OJ991029_11.0207.C11.o2.np	Method	AAT/NAP
Start	8003	End	8580
GI	6069646	Score	148

Exons 8003..8208, 8360..8580  
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77976	Strand	+
Start	16491	End	17271
Name	OJ991029_11.0207.C11.o1.gp	Method	AAT/GAP
Start	16491	End	17271
GI	none	Score	1483
Exons	16491..17271		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77977	Strand	+
Start	22287	End	23465
Name	OJ991029_11.0207.C11.o4.np	Method	AAT/NAP
Start	22287	End	23465
GI	1657851	Score	62
Exons	22287..22362, 23152..23465		

GI Descrip. (U73214) cold acclimation protein WCOR518 [Triticum aestivum]

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77978	Strand	-
Start	3919	End	18096
Name	OJ991029_11.0207.C11.o3.np	Method	AAT/NAP
Start	3919	End	18096
GI	4206763	Score	183
Exons	3919..3998, 10631..10907, 16987..17172, 18029..18096		
GI Descrip.	(AF104328) cell wall-plasma membrane linker protein homolog [Arabidopsis thaliana]		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77978	Strand	-
Start	3919	End	18096
Name	OJ991029_11.0207.C11.o2.gs	Method	GENSCAN
Start	6085	End	11002
GI	none	Score	.43
Exons	6085..6301, 8424..8760, 8766..8877, 9688..9759, 10619..11002		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77978	Strand	-
Start	3919	End	18096
Name	OJ991029_11.0207.C11.o3.gs	Method	GENSCAN
Start	12244	End	14564
GI	none	Score	.6
Exons	12244..12599, 13628..13752, 14383..14564		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77978	Strand	-
Start	3919	End	18096
Name	OJ991029_11.0207.C11.o4.gs	Method	GENSCAN
Start	15635	End	17252
GI	none	Score	.59
Exons	15635..15769, 16812..17252		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77979	Strand	-
Start	20477	End	23379
Name	OJ991029_11.0207.C11.o1.tc	Method	TBLASTX:Cress
Start	7294	End	7684
GI	none	Score	94
Exons	7294..7362, 7295..7357, 7296..7382, 7296..7382, 7356..7490, 7357..7491, 7358..7477, 7473..7532, 7473..7535, 7474..7533, 7568..7618, 7569..7619, 7629..7676, 7630..7677, 7631..7681, 7631..7684		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77979	Strand	-
Start	20477	End	23379
Name	OJ991029_11.0207.C11.o1.tm	Method	TBLASTX:Maize
Start	7645	End	7831
GI	none	Score	150
Exons	7645..7731, 7647..7730, 7651..7731, 7723..7791, 7729..7797, 7742..7831		

Seq. No.	37937	Seq. ID	OJ991029_11.0207.C11
Gene No.	77979	Strand	-
Start	20477	End	23379
Name	OJ991029_11.0207.C11.o5.gs	Method	GENSCAN
Start	20477	End	23379
GI	none	Score	.58
Exons	20477..20690, 22269..22416, 22421..22542, 23093..23240, 23245..23379		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77980	Strand	+
Start	1524	End	1721
Name	OJ991029_11.0207.C12.o1.gp	Method	AAT/GAP
Start	1524	End	1721
GI	10431_1.R1084	Score	315
Exons	1524..1721		
GI Descrip.	'1256198/dbj D63711 RICTNR3 4.0e-82 Rice transposon Tnr3 DNA, complete sequence'		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77981	Strand	+
Start	6727	End	16367
Name	OJ991029_11.0207.C12.o2.gs	Method	GENSCAN
Start	6727	End	16017
GI	none	Score	.51
Exons	6727..6877, 7734..8345, 8693..8836, 9172..9263, 9363..9692, 10308..10352, 10808..10927, 11439..11546, 11818..11991, 12237..12374, 12826..12933, 13269..13417, 14326..14355, 14648..14779, 14885..15068, 15156..15239, 15328..15527, 15658..15717, 15813..16017		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77981	Strand	+
Start	6727	End	16367
Name	OJ991029_11.0207.C12.o2.np	Method	AAT/NAP
Start	9540	End	16014

GI 4539327 Score 2689  
 Exons 9540..9692, 10308..10352, 10808..10927, 11006..11113,  
 11439..11546, 11818..11991, 12237..12374, 12826..12928,  
 13044..13156, 13269..13417, 13999..14152, 14325..14485,  
 14573..14768, 14802..15068, 15156..15239, 15328..15527,  
 15658..15717, 15813..16014  
 GI Descrip. (AL035679) putative proton pump [Arabidopsis thaliana]

Seq. No. 37938 Seq. ID OJ991029\_11.0207.C12  
 Gene No. 77981 Strand +  
 Start 6727 End 16367  
 Name OJ991029\_11.0207.C12.o3.gp Method AAT/GAP  
 Start 14111 End 14910  
 GI LIB3433-045-P1-K1-B10 Score 754  
 Exons 14111..14152, 14326..14485, 14573..14779, 14885..14910  
 GI Descrip. '5823572/emb|CAB53754.1| 3.0e-21 (AL049730) putative protein  
 [Arabidopsis thaliana]'

Seq. No. 37938 Seq. ID OJ991029\_11.0207.C12  
 Gene No. 77981 Strand +  
 Start 6727 End 16367  
 Name OJ991029\_11.0207.C12.o4.gp Method AAT/GAP  
 Start 15819 End 16367  
 GI 5456485 Score 1047  
 Exons 15819..16367  
 GI Descrip. 4567273/gb|AAD23686.1|AC006841\_14 1.0e-18 (AC006841) putative  
 vacuolar proton ATPase subunit [Arabidopsis thaliana]

Seq. No. 37938 Seq. ID OJ991029\_11.0207.C12  
 Gene No. 77982 Strand -  
 Start 245 End 4888  
 Name OJ991029\_11.0207.C12.o1.gs Method GENSCAN  
 Start 245 End 4882  
 GI none Score .51  
 Exons 245..256, 349..437, 2670..2787, 3120..3262, 4186..4882

Seq. No. 37938 Seq. ID OJ991029\_11.0207.C12  
 Gene No. 77982 Strand -  
 Start 245 End 4888  
 Name OJ991029\_11.0207.C12.o1.np Method AAT/NAP  
 Start 4178 End 4888  
 GI 6523090 Score 556  
 Exons 4178..4888  
 GI Descrip. (AL133315) transcription factor Hap5a [Arabidopsis thaliana]

Seq. No. 37938 Seq. ID OJ991029\_11.0207.C12  
 Gene No. 77983 Strand -  
 Start 5510 End 6337  
 Name OJ991029\_11.0207.C12.o2.gp Method AAT/GAP  
 Start 5510 End 6337  
 GI none Score 1589  
 Exons 5510..6337

Seq. No. 37938 Seq. ID OJ991029\_11.0207.C12  
 Gene No. 77984 Strand -  
 Start 16127 End 21286  
 Name OJ991029\_11.0207.C12.o2.tc Method TBLASTX:Cress

Start 4424  
GI none  
Exons 4424..4720, 4446..4694

End 4720  
Score 253

Seq. No. 37938  
Gene No. 77984  
Start 16127  
Name OJ991029\_11.0207.C12.o2.tm  
Start 4424  
GI none  
Exons 4424..4735, 4443..4736

Seq. ID OJ991029\_11.0207.C12  
Strand -  
End 21286  
Method TBLASTX:Maize  
End 4736  
Score 425

Seq. No. 37938  
Gene No. 77984  
Start 16127  
Name OJ991029\_11.0207.C12.o2.ts  
Start 4424  
GI none  
Exons 4424..4720, 4443..4694, 4710..4739

Seq. ID OJ991029\_11.0207.C12  
Strand -  
End 21286  
Method TBLASTX:Soybean  
End 4739  
Score 318

Seq. No. 37938  
Gene No. 77984  
Start 16127  
Name OJ991029\_11.0207.C12.o4.tm  
Start 7720  
GI none  
Exons 7720..7842, 7831..7974, 7975..8019

Seq. ID OJ991029\_11.0207.C12  
Strand -  
End 21286  
Method TBLASTX:Maize  
End 8019  
Score 44

Seq. No. 37938  
Gene No. 77984  
Start 16127  
Name OJ991029\_11.0207.C12.o4.tc  
Start 11060  
GI none  
Exons 11060..11113, 11428..11529, 11817..12014, 11830..11991, 12236..12328, 12239..12355, 12243..12377, 12814..12927, 13043..13165, 13054..13146, 13266..13418, 13274..13417, 13993..14145, 13994..14152, 14285..14416, 14325..14417, 14331..14417

Seq. ID OJ991029\_11.0207.C12  
Strand -  
End 21286  
Method TBLASTX:Cress  
End 14417  
Score 66

Seq. No. 37938  
Gene No. 77984  
Start 16127  
Name OJ991029\_11.0207.C12.o3.ts  
Start 11896  
GI none  
Exons 11896..11991, 11898..12014, 12229..12336, 12239..12355, 12243..12377, 12802..12936, 12813..12938, 13055..13165, 13057..13152, 13266..13418, 13271..13417

Seq. ID OJ991029\_11.0207.C12  
Strand -  
End 21286  
Method TBLASTX:Soybean  
End 13418  
Score 145

Seq. No. 37938  
Gene No. 77984  
Start 16127  
Name OJ991029\_11.0207.C12.o6.ts  
Start 14331  
GI none  
Exons 14331..14483, 14341..14469, 14384..14479, 14553..14627,

Seq. ID OJ991029\_11.0207.C12  
Strand -  
End 21286  
Method TBLASTX:Soybean  
End 14627  
Score 210

14567..14626

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o1.tm	Method	TBLASTX:Maize
Start	14341	End	16168
GI	none	Score	207
Exons	14341..14481, 14343..14483, 14553..14780, 14555..14782, 14576..14794, 14874..15068, 14885..15070, 14886..15071, 15151..15240, 15152..15232, 15322..15423, 15325..15402, 15326..15403, 15389..15523, 15392..15523, 15393..15527, 15394..15525, 15655..15717, 15662..15718, 15799..16017, 15814..16017, 15816..16028, 16091..16168		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o1.tc	Method	TBLASTX:Cress
Start	14418	End	15038
GI	none	Score	87
Exons	14418..14483, 14421..14489, 14552..14779, 14553..14780, 14883..15011, 14886..15038, 14888..15037		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o4.ts	Method	TBLASTX:Soybean
Start	14700	End	15233
GI	none	Score	93
Exons	14700..14783, 14709..14777, 14879..15052, 14883..15071, 14888..15109, 15189..15233		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o6.tc	Method	TBLASTX:Cress
Start	15152	End	15709
GI	none	Score	77
Exons	15152..15235, 15165..15239, 15189..15236, 15327..15371, 15328..15387, 15332..15373, 15382..15525, 15417..15527, 15451..15525, 15662..15709		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o5.ts	Method	TBLASTX:Soybean
Start	15328	End	16012
GI	none	Score	60
Exons	15328..15396, 15382..15525, 15417..15521, 15417..15527, 15451..15525, 15655..15720, 15662..15718, 15813..16010, 15814..16011, 15881..16012		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o5.tc	Method	TBLASTX:Cress

Start	15840	End	16005
GI	none	Score	221
Exons	15840..15998, 15841..15990, 15868..16005		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o3.np	Method	AAT/NAP
Start	16127	End	19945
GI	2789434	Score	1310
Exons	16127..16174, 16831..17068, 17105..17196, 17287..17454, 17540..17770, 17918..17992, 18091..18171, 18284..18382, 18530..18648, 18739..18859, 19013..19063, 19223..19324, 19841..19945		

GI Descrip. (AB001389) CLB1 [Lycopersicon esculentum]

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o3.gs	Method	GENSCAN
Start	16816	End	21286
GI	none	Score	68
Exons	16816..17454, 17540..17765, 17907..17992, 18091..18171, 18284..18382, 18530..18648, 18718..18859, 19013..19063, 19223..19324, 20026..20142, 21059..21156, 21184..21286		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o3.tc	Method	TBLASTX:Cress
Start	16819	End	19339
GI	none	Score	178
Exons	16819..16911, 17284..17430, 17537..17767, 17559..17777, 17909..18001, 18089..18172, 18091..18192, 18091..18180, 18285..18404, 18314..18403, 18515..18646, 18527..18649, 18531..18650, 18713..18862, 18738..18860, 18763..18864, 19004..19066, 19215..19325, 19215..19313, 19217..19339		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o3.tm	Method	TBLASTX:Maize
Start	16837	End	18817
GI	none	Score	216
Exons	16837..16911, 17176..17199, 17272..17457, 17534..17767, 17538..17768, 17927..18001, 17946..17993, 17948..17998, 18089..18184, 18091..18210, 18091..18180, 18285..18404, 18314..18403, 18500..18649, 18515..18646, 18528..18650, 18731..18814, 18738..18815, 18770..18817		

Seq. No.	37938	Seq. ID	OJ991029_11.0207.C12
Gene No.	77984	Strand	-
Start	16127	End	21286
Name	OJ991029_11.0207.C12.o1.ts	Method	TBLASTX:Soybean
Start	17284	End	18157
GI	none	Score	182
Exons	17284..17430, 17537..17767, 17538..17768, 17912..17998,		

17912..18001, 18089..18157, 18091..18156

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77985	Strand	+
Start	1	End	1749
Name	OJ991029_11.0207.C14.o1.np	Method	AAT/NAP
Start	1	End	1749
GI	2979551	Score	1150
Exons	1..1749		
GI Descrip.	(AC003680) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77986	Strand	+
Start	8203	End	9782
Name	OJ991029_11.0207.C14.o3.np	Method	AAT/NAP
Start	8203	End	9782
GI	5430769	Score	58
Exons	8203..8271, 9223..9286, 9632..9782		
GI Descrip.	(AC007504) Similar to somatic embryogenesis receptor-like kinase [Arabidopsis thaliana]		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o2.tc	Method	TBLASTX:Cress
Start	16	End	381
GI	none	Score	125
Exons	16..162, 36..155, 157..198, 159..227, 277..381, 280..381		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o3.tm	Method	TBLASTX:Maize
Start	31	End	579
GI	none	Score	91
Exons	31..180, 45..122, 153..200, 301..378, 385..579		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o1.tm	Method	TBLASTX:Maize
Start	1014	End	1710
GI	none	Score	69
Exons	1014..1106, 1016..1126, 1054..1161, 1056..1160, 1221..1331, 1221..1709, 1222..1710		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o1.tc	Method	TBLASTX:Cress
Start	1284	End	1753
GI	none	Score	36
Exons	1284..1307, 1321..1404, 1326..1421, 1399..1713, 1401..1541, 1429..1686, 1566..1751, 1568..1753		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-



Start	4859	End	10051
Name	OJ991029_11.0207.C14.o1.ts	Method	TBLASTX:Soybean
Start	1479	End	1730
GI	none	Score	210
Exons	1479..1730, 1480..1713		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o2.gs	Method	GENSCAN
Start	4859	End	10051
GI	none	Score	.81
Exons	4859..4954, 5568..5777, 5875..6078, 6173..6289, 6484..6602, 6793..7133, 7740..7815, 7838..7901, 8054..8412, 9021..9094, 9266..9433, 9489..9786, 10009..10051		

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o2.np	Method	AAT/NAP
Start	4868	End	8224
GI	5823572	Score	.701
Exons	4868..4954, 5568..5777, 5836..6087, 6173..6301, 6484..6602, 6793..7133, 7284..7421, 7726..7901, 8054..8224		

GI Descrip. (AL049730) putative protein [Arabidopsis thaliana]

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o1.gp	Method	AAT/GAP
Start	6840	End	7338
GI	428488	Score	662
Exons	6840..7133, 7284..7338		

GI Descrip. 5823572/emb|CAB53754.1| 3.0e-21 (AL049730) putative protein [Arabidopsis thaliana]

Seq. No.	37939	Seq. ID	OJ991029_11.0207.C14
Gene No.	77987	Strand	-
Start	4859	End	10051
Name	OJ991029_11.0207.C14.o2.tm	Method	TBLASTX:Maize
Start	6878	End	8213
GI	none	Score	.53
Exons	6878..7066, 6990..7046, 7046..7132, 7047..7130, 7277..7426, 7284..7427, 7710..7829, 7715..7765, 7737..7793, 7797..7904, 7807..7902, 8052..8213, 8054..8212		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77988	Strand	+
Start	50	End	10118
Name	OJ991029_11.0207.C15.o1.gs	Method	GENSCAN
Start	50	End	10118
GI	none	Score	.52
Exons	50..174, 4013..4200, 4361..4442, 4448..4629, 4698..4844, 5361..5407, 5737..6048, 6318..6411, 7077..7739, 7906..8030, 8143..8277, 8348..8406, 8477..9174, 9601..10118		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
----------	-------	---------	----------------------

Gene No.	77989	Strand	+
Start	16198	End	21495
Name	OJ991029_11.0207.C15.o3.np	Method	AAT/NAP
Start	16198	End	21495
GI	6721512	Score	78
Exons	16198..16241, 17023..17159, 17187..17315, 20329..20395, 21454..21495		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77990	Strand	-
Start	10729	End	13851
Name	OJ991029_11.0207.C15.o2.gs	Method	GENSCAN
Start	10729	End	13662
GI	none	Score	.97
Exons	10729..13662		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77990	Strand	-
Start	10729	End	13851
Name	OJ991029_11.0207.C15.o1.np	Method	AAT/NAP
Start	10732	End	13851
GI	5902445	Score	3086
Exons	10732..11969, 12009..13851		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o3.tw	Method	TBLASTX:Wheat
Start	10741	End	11349
GI	none	Score	67
Exons	10741..10872, 10742..10867, 10897..11349, 11093..11200, 11249..11335		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o4.tm	Method	TBLASTX:Maize
Start	10777	End	11025
GI	none	Score	153
Exons	10777..10860, 10861..11025		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o4.tw	Method	TBLASTX:Wheat
Start	11473	End	11856
GI	none	Score	216
Exons	11473..11856, 11474..11848		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o2.tm	Method	TBLASTX:Maize
Start	11551	End	11856
GI	none	Score	177

Exons	11551..11856, 11552..11839		
Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o6.tw	Method	TBLASTX:Wheat
Start	12253	End	12642
GI	none	Score	80
Exons	12253..12387, 12256..12381, 12263..12394, 12388..12489, 12538..12642		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o8.tw	Method	TBLASTX:Wheat
Start	12652	End	12906
GI	none	Score	61
Exons	12652..12834, 12712..12831, 12838..12906		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o1.ts	Method	TBLASTX:Soybean
Start	12856	End	13281
GI	none	Score	89
Exons	12856..13281, 13097..13222		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o2.tw	Method	TBLASTX:Wheat
Start	12911	End	13335
GI	none	Score	229
Exons	12911..13225, 12913..13335, 12946..13335		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o3.tm	Method	TBLASTX:Maize
Start	13009	End	13392
GI	none	Score	112
Exons	13009..13392, 13010..13225, 13176..13358, 13255..13365		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o1.tm	Method	TBLASTX:Maize
Start	13420	End	13776
GI	none	Score	224
Exons	13420..13776, 13421..13714, 13474..13722		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o1.tw	Method	TBLASTX:Wheat
Start	13451	End	13906
GI	none	Score	336

Exons 13451..13906, 13462..13905

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o3.gs	Method	GENSCAN
Start	13915	End	24996
GI	none	Score	.64
Exons	13915..14513, 14655..14797, 14856..15673, 15690..15803, 15811..16477, 16667..16978, 17023..17096, 24829..24996		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o2.np	Method	AAT/NAP
Start	13918	End	15769
GI	5902444	Score	1024
Exons	13918..15769		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o5.tw	Method	TBLASTX:Wheat
Start	14055	End	14545
GI	none	Score	38
Exons	14055..14108, 14098..14334, 14108..14173, 14113..14328, 14216..14332, 14371..14544, 14372..14545		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o7.tw	Method	TBLASTX:Wheat
Start	15185	End	15577
GI	none	Score	86
Exons	15185..15460, 15186..15413, 15419..15532, 15471..15521, 15533..15577		

Seq. No.	37940	Seq. ID	OJ991029_11.0207.C15
Gene No.	77991	Strand	-
Start	13915	End	24996
Name	OJ991029_11.0207.C15.o5.tm	Method	TBLASTX:Maize
Start	15299	End	15538
GI	none	Score	198
Exons	15299..15538		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77992	Strand	+
Start	1290	End	7417
Name	OJ991029_11.0207.C16.o2.gs	Method	GENSCAN
Start	1290	End	7417
GI	none	Score	.83
Exons	1290..1294, 1409..1527, 1723..1970, 2437..2550, 2628..2787, 3051..3527, 3726..3949, 4755..4865, 4948..5088, 5747..5809, 5865..5945, 6028..6100, 6204..6259, 6352..6446, 6541..6575, 7341..7417		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77993	Strand	+
Start	12975	End	13298
Name	OJ991029_11.0207.C16.o4.gs	Method	GENSCAN
Start	12975	End	13298
GI	none	Score	.99
Exons	12975..13298		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77994	Strand	-
Start	25	End	601
Name	OJ991029_11.0207.C16.o1.gs	Method	GENSCAN
Start	25	End	601
GI	none	Score	.82
Exons	25..468, 530..601		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o1.tm	Method	TBLASTX:Maize
Start	980	End	9214
GI	none	Score	.69
Exons	980..1030, 982..1029, 997..1089, 1029..1064, 1031..1099, 8277..8471, 8289..8465, 8290..8469, 8291..8470, 8551..8691, 8552..8695, 8553..8696, 8554..8706, 8950..9120, 8951..9121, 8957..9121, 8967..9125, 9194..9214		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o3.gs	Method	GENSCAN
Start	7756	End	12265
GI	none	Score	.85
Exons	7756..8002, 8413..8468, 8554..8681, 8966..9107, 9194..9289, 9465..9605, 9750..9924, 10336..10502, 10700..10793, 11783..11874, 11984..12078, 12160..12265		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o2.ts	Method	TBLASTX:Soybean
Start	8293	End	8474
GI	none	Score	.131
Exons	8293..8469, 8307..8474		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o1.np	Method	AAT/NAP
Start	8298	End	12265
GI	4006914	Score	1351
Exons	8298..8468, 8554..8681, 8987..9107, 9194..9289, 9465..9605, 9750..9924, 10336..10468, 10554..10626, 10700..10793, 11783..11874, 11984..12078, 12160..12265		
GI Descrip.	(Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o2.tc	Method	TBLASTX:Cress
Start	8320	End	8679
GI	none	Score	94
Exons	8320..8463, 8328..8471, 8554..8679, 8558..8638		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o1.gp	Method	AAT/GAP
Start	8392	End	8587
GI	701925	Score	143
Exons	8392..8468, 8554..8587		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o1.ts	Method	TBLASTX:Soybean
Start	9033	End	10796
GI	none	Score	72
Exons	9033..9125, 9046..9102, 9194..9295, 9219..9296, 9435..9608, 9436..9606, 9447..9641, 9463..9612, 9750..9926, 9751..9924, 10332..10469, 10335..10469, 10336..10470, 10546..10602, 10546..10635, 10551..10604, 10556..10627, 10679..10795, 10707..10796, 10725..10796		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o2.gp	Method	AAT/GAP
Start	9734	End	10782
GI	43229_1.R1084	Score	816
Exons	9734..9924, 10335..10468, 10554..10626, 10700..10782		
GI Descrip.	'4006914/emb CAB16844.1  1.0e-61 (Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]'		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o1.tc	Method	TBLASTX:Cress
Start	9787	End	10635
GI	none	Score	106
Exons	9787..9924, 9789..9926, 9816..10001, 10332..10469, 10335..10469, 10336..10470, 10546..10635, 10551..10631, 10556..10633		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o2.tm	Method	TBLASTX:Maize
Start	10425	End	10796
GI	none	Score	40
Exons	10425..10469, 10426..10470, 10482..10547, 10503..10652, 10541..10612, 10667..10795, 10698..10796, 10701..10796		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
----------	-------	---------	----------------------

Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o3.ts	Method	TBLASTX:Soybean
Start	11818	End	12275
GI	none	Score	65
Exons	11818..11877, 11821..11877, 11984..12088, 12138..12275, 12158..12274		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o3.tm	Method	TBLASTX:Maize
Start	12002	End	12276
GI	none	Score	67
Exons	12002..12088, 12010..12090, 12011..12091, 12152..12274, 12154..12273, 12159..12275, 12160..12276		

Seq. No.	37941	Seq. ID	OJ991029_11.0207.C16
Gene No.	77995	Strand	-
Start	7756	End	13161
Name	OJ991029_11.0207.C16.o3.gp	Method	AAT/GAP
Start	12008	End	13161
GI	700407	Score	714
Exons	12008..12078, 12160..12322, 13017..13161		

Seq. No.	37942	Seq. ID	OJ991029_11.0207.C17
Gene No.	77996	Strand	-
Start	1	End	166
Name	OJ991029_11.0207.C17.o1.gp	Method	AAT/GAP
Start	1	End	166
GI	none	Score	318
Exons	1..166		

Seq. No.	37942	Seq. ID	OJ991029_11.0207.C17
Gene No.	77997	Strand	-
Start	77	End	163
Name	OJ991029_11.0207.C17.o1.gs	Method	GENSCAN
Start	77	End	163
GI	none	Score	.45
Exons	77..163		

Seq. No.	37943	Seq. ID	OJ991029_11.0207.C19
Gene No.	77998	Strand	-
Start	38	End	123
Name	OJ991029_11.0207.C19.o1.gs	Method	GENSCAN
Start	38	End	123
GI	none	Score	.77
Exons	38..123		

Seq. No.	37943	Seq. ID	OJ991029_11.0207.C19
Gene No.	77999	Strand	-
Start	38	End	156
Name	OJ991029_11.0207.C19.o1.gp	Method	AAT/GAP
Start	38	End	156
GI	2280917	Score	211
Exons	38..156		

Seq. No.	37944	Seq. ID	OJ991029_11.0207.C20
Gene No.	78000	Strand	-
Start	1	End	529
Name	OJ991029_11.0207.C20.o1.np	Method	AAT/NAP
Start	1	End	529
GI	4567273	Score	103
Exons	1..44, 123..248, 460..529		
GI Descrip.	(AC006841) putative vacuolar proton-ATPase subunit [Arabidopsis thaliana]		

Seq. No.	37944	Seq. ID	OJ991029_11.0207.C20
Gene No.	78000	Strand	-
Start	1	End	529
Name	OJ991029_11.0207.C20.o1.gs	Method	GENSCAN
Start	123	End	242
GI	none	Score	.44
Exons	123..242		

Seq. No.	37945	Seq. ID	OJ991029_11.0207.C22
Gene No.	78001	Strand	-
Start	1	End	526
Name	OJ991029_11.0207.C22.o1.np	Method	AAT/NAP
Start	1	End	466
GI	2979555	Score	286
Exons	1..307, 356..466		
GI Descrip.	(AC003680) unknown protein [Arabidopsis thaliana]		

Seq. No.	37945	Seq. ID	OJ991029_11.0207.C22
Gene No.	78001	Strand	-
Start	1	End	526
Name	OJ991029_11.0207.C22.o1.tm	Method	TBLASTX:Maize
Start	20	End	212
GI	none	Score	81
Exons	20..211, 96..212		

Seq. No.	37945	Seq. ID	OJ991029_11.0207.C22
Gene No.	78001	Strand	-
Start	1	End	526
Name	OJ991029_11.0207.C22.o1.ts	Method	TBLASTX:Soybean
Start	20	End	454
GI	none	Score	58
Exons	20..310, 96..212, 389..454		

Seq. No.	37945	Seq. ID	OJ991029_11.0207.C22
Gene No.	78001	Strand	-
Start	1	End	526
Name	OJ991029_11.0207.C22.o1.gs	Method	GENSCAN
Start	27	End	526
GI	none	Score	.61
Exons	27..526		

Seq. No.	37945	Seq. ID	OJ991029_11.0207.C22
Gene No.	78001	Strand	-
Start	1	End	526
Name	OJ991029_11.0207.C22.o1.tw	Method	TBLASTX:Wheat
Start	29	End	242
GI	none	Score	89



Exons 29..241, 96..242

Seq. No.	37945	Seq. ID	OJ991029_11.0207.C22
Gene No.	78001	Strand	-
Start	1	End	526
Name	OJ991029_11.0207.C22.o1.tc	Method	TBLASTX:Cress
Start	56	End	442
GI	none	Score	59
Exons	56..214, 120..215, 248..304, 386..442		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78002	Strand	+
Start	19	End	1079
Name	OJ991119_10.0222.C1.o1.gs	Method	GENSCAN
Start	19	End	1079
GI	none	Score	.65
Exons	19..91, 712..800, 909..1079		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78003	Strand	+
Start	2333	End	4252
Name	OJ991119_10.0222.C1.o1.np	Method	AAT/NAP
Start	2333	End	4252
GI	6907086	Score	1572
Exons	2333..3080, 3138..3324, 3556..3668, 3791..3956, 4060..4252		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78004	Strand	+
Start	13596	End	16385
Name	OJ991119_10.0222.C1.o4.gs	Method	GENSCAN
Start	13596	End	15990
GI	none	Score	.61
Exons	13596..13713, 14377..14436, 14662..14693, 15442..15990		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78004	Strand	+
Start	13596	End	16385
Name	OJ991119_10.0222.C1.o3.gp	Method	AAT/GAP
Start	15813	End	16385
GI	none	Score	1131
Exons	15813..16385		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78005	Strand	+
Start	20657	End	25523
Name	OJ991119_10.0222.C1.o2.np	Method	AAT/NAP
Start	20651	End	25523
GI	470340	Score	275
Exons	20651..20770, 21675..21853, 22213..22431, 22489..22578, 22890..23087, 23197..23263, 23339..23363, 23442..23552, 23621..23682, 23764..23816, 23918..23993, 24109..24221, 25486..25523		
GI Descrip.	(U00043) similar to beta-mannosyltransferase [Caenorhabditis elegans]		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
----------	-------	---------	---------------------

Gene No.	78005	Strand	+
Start	20657	End	25523
Name	OJ991119_10.0222.C1.o6.gs	Method	GENSCAN
Start	20657	End	23771
GI	none	Score	.86
Exons	20657..20767, 21675..21809, 22255..22403, 22489..22578, 23197..23363, 23764..23771		

  

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78005	Strand	+
Start	20657	End	25523
Name	OJ991119_10.0222.C1.o4.gp	Method	AAT/GAP
Start	23059	End	23959
GI	uC-osroM202022c08b1	Score	791
Exons	23059..23087, 23197..23363, 23442..23552, 23621..23682, 23764..23816, 23918..23959		
GI Descrip.	'1800223 2.0e-31 (U65018) mannosyltransferase [Dictyostelium discoideum]'		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78006	Strand	+
Start	29402	End	29859
Name	OJ991119_10.0222.C1.o6.gp	Method	AAT/GAP
Start	29402	End	29859
GI	3761357	Score	875
Exons	29402..29859		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78007	Strand	-
Start	402	End	904
Name	OJ991119_10.0222.C1.o1.gp	Method	AAT/GAP
Start	402	End	904
GI	38782_1.R1084	Score	818
Exons	402..904		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78008	Strand	-
Start	7173	End	11654
Name	OJ991119_10.0222.C1.o3.gs	Method	GENSCAN
Start	7173	End	11566
GI	none	Score	.78
Exons	7173..7283, 9459..9542, 10736..10890, 11007..11185, 11295..11566		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78008	Strand	-
Start	7173	End	11654
Name	OJ991119_10.0222.C1.o2.gp	Method	AAT/GAP
Start	10778	End	11654
GI	none	Score	1123
Exons	10778..10890, 11007..11185, 11295..11654		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78009	Strand	-
Start	18638	End	20157
Name	OJ991119_10.0222.C1.o5.gs	Method	GENSCAN

Start	18638	End	20157
GI	none	Score	.52
Exons	18638..18846, 19214..19394, 19860..20012, 20110..20157		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o2.tm	Method	TBLASTX:Maize
Start	20675	End	22358
GI	none	Score	134
Exons	20675..20767, 20683..20775, 21345..21386, 21351..21389, 21352..21387, 21543..21599, 21544..21600, 21545..21601, 21545..21604, 21667..21807, 21674..21808, 21675..21809, 21675..21809, 21679..21810, 22251..22310, 22252..22350, 22253..22351, 22254..22358		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o3.tm	Method	TBLASTX:Maize
Start	22693	End	23090
GI	none	Score	104

Exons	22693..22758, 22697..22759, 22700..22759, 22829..22885, 22830..22886, 22831..22893, 22975..23043, 22981..23085, 22992..23090		
-------	--	--	--

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o1.tm	Method	TBLASTX:Maize
Start	23044	End	24240
GI	none	Score	38
Exons	23044..23064, 23174..23266, 23193..23267, 23198..23269, 23273..23365, 23273..23365, 23428..23553, 23430..23549, 23441..23554, 23611..23685, 23619..23693, 23761..23814, 23763..23816, 23764..23814, 23917..23991, 23918..23992, 23919..23999, 24103..24240, 24108..24239		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o1.ts	Method	TBLASTX:Soybean
Start	23197	End	23802
GI	none	Score	223

Exons	23197..23364, 23198..23365, 23198..23371, 23440..23553, 23441..23554, 23611..23685, 23619..23693, 23763..23801, 23764..23802		
-------	--	--	--

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o1.tc	Method	TBLASTX:Cress
Start	23464	End	24246
GI	none	Score	137
Exons	23464..23553, 23465..23554, 23611..23685, 23619..23693, 23763..23813, 23764..23814, 23918..23983, 23919..23999, 24108..24245, 24109..24246		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o3.np	Method	AAT/NAP
Start	24315	End	27491
GI	4680341	Score	632
Exons	24315..24357, 26678..26726, 26983..27348, 27407..27491		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o7.gs	Method	GENSCAN
Start	24839	End	25850
GI	none	Score	.76
Exons	24839..24864, 24973..25114, 25228..25637, 25733..25850		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o1.tw	Method	TBLASTX:Wheat
Start	26714	End	27121
GI	none	Score	38
Exons	26714..26752, 26736..26771, 26746..26772, 26750..26785, 26859..26924, 26860..26925, 26860..26949, 26861..26929, 26861..26950, 26994..27047, 26995..27054, 26995..27105, 26996..27106, 27047..27121		

Seq. No.	37946	Seq. ID	OJ991119_10.0222.C1
Gene No.	78010	Strand	-
Start	24839	End	29624
Name	OJ991119_10.0222.C1.o8.gs	Method	GENSCAN
Start	26959	End	29624
GI	none	Score	.6
Exons	26959..27384, 27419..27491, 28156..28235, 29343..29624		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78011	Strand	+
Start	517	End	1094
Name	OJ991119_10.0222.C2.o1.gp	Method	AAT/GAP
Start	517	End	1094
GI	none	Score	1055
Exons	517..1094		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78012	Strand	+
Start	1292	End	8059
Name	OJ991119_10.0222.C2.o1.gs	Method	GENSCAN
Start	1292	End	8059
GI	none	Score	.59
Exons	1292..1316, 2826..2927, 4475..4571, 5173..5276, 5617..5711, 5832..5913, 6505..6601, 6717..6775, 6894..6976, 7132..7227, 7804..7921, 7968..8059		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78012	Strand	+

Start	1292	End	8059
Name	OJ991119_10.0222.C2.o2.gp	Method	AAT/GAP
Start	1357	End	1478
GI	none	Score	214
Exons	1357..1478		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78012	Strand	+
Start	1292	End	8059
Name	OJ991119_10.0222.C2.o3.gp	Method	AAT/GAP
Start	5297	End	7768
GI	4819_1.R1084	Score	1922
Exons	5297..5479, 5617..5711, 5832..5913, 6505..6601, 6717..6775, 6894..6976, 7132..7227, 7311..7370, 7458..7768		
GI Descrip.	'4539545/emb CAB39975.1  1.0e-120 (Y16644) PRCI [Nicotiana tabacum]'		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78012	Strand	+
Start	1292	End	8059
Name	OJ991119_10.0222.C2.o1.np	Method	AAT/NAP
Start	5404	End	7547
GI	4539545	Score	897
Exons	5404..5479, 5617..5711, 5832..5913, 6505..6601, 6717..6775, 6894..6976, 7132..7227, 7311..7370, 7458..7547		
GI Descrip.	(Y16644) PRCI [Nicotiana tabacum]		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o1.tw	Method	TBLASTX:Wheat
Start	5389	End	7205
GI	none	Score	138
Exons	5389..5478, 5394..5477, 5440..5478, 5615..5716, 5616..5711, 5830..5916, 5831..5911, 5832..5915, 6473..6601, 6504..6602, 6504..6602, 6527..6607, 6713..6769, 6715..6771, 6717..6770, 6718..6774, 6892..6975, 6893..7021, 6893..6976, 7120..7203, 7129..7203, 7167..7205		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o1.ts	Method	TBLASTX:Soybean
Start	5397	End	7562
GI	none	Score	124
Exons	5397..5468, 5398..5478, 5615..5722, 5616..5711, 5831..5911, 5832..5888, 6473..6601, 6504..6602, 6717..6773, 6718..6774, 6892..6969, 6893..7021, 7120..7239, 7131..7223, 7308..7373, 7308..7370, 7310..7486, 7455..7562, 7457..7549		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o1.tc	Method	TBLASTX:Cress
Start	5403	End	7553
GI	none	Score	125
Exons	5403..5477, 5404..5478, 5582..5722, 5616..5711, 5832..5888,		

5832..5915, 6473..6601, 6504..6602, 6717..6773, 6717..6773,  
 6718..6774, 6892..6969, 6893..7021, 7118..7228, 7129..7239,  
 7129..7218, 7131..7223, 7308..7373, 7310..7372, 7326..7376,  
 7455..7553, 7457..7549

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o4.tm	Method	TBLASTX:Maize
Start	5403	End	7558
GI	none	Score	133
Exons	5403..5477, 5404..5478, 5440..5478, 5603..5716, 5616..5711, 5830..5922, 5831..5911, 6473..6601, 6502..6621, 6504..6602, 6717..6773, 6717..6773, 6718..6774, 6725..6775, 6892..6978, 6892..6975, 6893..7021, 7120..7239, 7129..7227, 7302..7367, 7308..7373, 7310..7396, 7455..7550, 7457..7558, 7462..7554		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o4.gp	Method	AAT/GAP
Start	7974	End	10299
GI	15444_1.R1084	Score	1885
Exons	7974..8547, 9208..9326, 9892..9962, 10054..10299		
GI Descrip.	'3075391 7.0e-29 (AC004484) unknown protein [Arabidopsis thaliana]'		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o3.tm	Method	TBLASTX:Maize
Start	8156	End	12306
GI	none	Score	40
Exons	8156..8185, 8161..8184, 8262..8543, 8273..8551, 8277..8549, 8278..8556, 12209..12292, 12211..12306		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o2.gs	Method	GENSCAN
Start	8271	End	12729
GI	none	Score	.7
Exons	8271..8547, 9208..9326, 9892..9962, 10054..10175, 10218..10444, 10926..10994, 11970..12064, 12132..12729		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o2.np	Method	AAT/NAP
Start	8274	End	12744
GI	3075391	Score	345
Exons	8274..8541, 9208..9326, 9892..9962, 10051..10433, 11908..12744		
GI Descrip.	(AC004484) unknown protein [Arabidopsis thaliana]		

Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777

Name	OJ991119_10.0222.C2.o2.ts	Method	TBLASTX:Soybean
Start	8328	End	12755
GI	none	Score	38
Exons	8328..8378, 8329..8376, 8376..8498, 8389..8511, 9916..9975, 10049..10108, 10055..10141, 10118..10261, 10180..10281, 12379..12537, 12382..12609, 12383..12613, 12637..12708, 12638..12718, 12723..12755		
Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o1.tm	Method	TBLASTX:Maize
Start	9249	End	12208
GI	none	Score	87
Exons	9249..9341, 9898..9963, 9900..9974, 10040..10447, 10056..10442, 10058..10447, 11970..12044, 11970..12056, 11971..12057, 12131..12163, 12132..12161, 12133..12162, 12157..12207, 12158..12208		
Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o5.gp	Method	AAT/GAP
Start	12296	End	14777
GI	49278_1.R1084	Score	1118
Exons	12296..12777, 14678..14777		
GI Descrip.	'3075391 9.0e-12 (AC004484) unknown protein [Arabidopsis thaliana]'		
Seq. No.	37947	Seq. ID	OJ991119_10.0222.C2
Gene No.	78013	Strand	-
Start	7974	End	14777
Name	OJ991119_10.0222.C2.o2.tm	Method	TBLASTX:Maize
Start	12316	End	12732
GI	none	Score	301
Exons	12316..12624, 12317..12604, 12598..12729, 12613..12732		
Seq. No.	37948	Seq. ID	OJ991119_10.0222.C3
Gene No.	78014	Strand	+
Start	57	End	194
Name	OJ991119_10.0222.C3.o1.gs	Method	GENSCAN
Start	57	End	194
GI	none	Score	.94
Exons	57..194		
Seq. No.	37949	Seq. ID	OJ991119_10.0222.C4
Gene No.	78015	Strand	+
Start	86	End	564
Name	OJ991119_10.0222.C4.o1.gs	Method	GENSCAN
Start	86	End	239
GI	none	Score	.57
Exons	86..174, 188..239		
Seq. No.	37949	Seq. ID	OJ991119_10.0222.C4
Gene No.	78015	Strand	+
Start	86	End	564
Name	OJ991119_10.0222.C4.o1.tm	Method	TBLASTX:Maize

Start	110	End	564
GI	none	Score	96
Exons	110..232, 114..230, 115..237, 306..362, 309..362, 310..363, 519..557, 520..558, 522..557, 523..564		

Seq. No.	37950	Seq. ID	OJ991119_10.0222.C5
Gene No.	78016	Strand	+
Start	19	End	193
Name	OJ991119_10.0222.C5.o1.gs	Method	GENSCAN
Start	19	End	193
GI	none	Score	.92
Exons	19..193		

Seq. No.	37951	Seq. ID	OJ991119_10.0222.C7
Gene No.	78017	Strand	+
Start	1	End	616
Name	OJ991119_10.0222.C7.o1.np	Method	AAT/NAP
Start	1	End	616
GI	2642157	Score	196
Exons	1..26, 482..616		
GI Descrip.	(AC003000) unknown protein [Arabidopsis thaliana]		

Seq. No.	37951	Seq. ID	OJ991119_10.0222.C7
Gene No.	78017	Strand	+
Start	1	End	616
Name	OJ991119_10.0222.C7.o1.tc	Method	TBLASTX:Cress
Start	479	End	616
GI	none	Score	210
Exons	479..616, 479..544, 480..593, 481..615		

Seq. No.	37951	Seq. ID	OJ991119_10.0222.C7
Gene No.	78017	Strand	+
Start	1	End	616
Name	OJ991119_10.0222.C7.o1.tm	Method	TBLASTX:Maize
Start	479	End	616
GI	none	Score	125
Exons	479..544, 481..543, 547..603, 548..616, 558..614		

Seq. No.	37951	Seq. ID	OJ991119_10.0222.C7
Gene No.	78017	Strand	+
Start	1	End	616
Name	OJ991119_10.0222.C7.o1.ts	Method	TBLASTX:Soybean
Start	482	End	616
GI	none	Score	213
Exons	482..616, 487..615		

Seq. No.	37952	Seq. ID	OJ991119_10.0222.C8
Gene No.	78018	Strand	+
Start	1	End	566
Name	OJ991119_10.0222.C8.o1.gp	Method	AAT/GAP
Start	1	End	566
GI	7319 2.R1084	Score	276
Exons	1..38, 292..384, 478..566		
GI Descrip.	'2081612/dbj BAA19916  2.0e-32 (D49714) delta1-pyrroline-5-carboxylate synthetase [Oryza sativa]'		

Seq. No.	37952	Seq. ID	OJ991119_10.0222.C8
----------	-------	---------	---------------------



Gene No.	78018	Strand	+
Start	1	End	566
Name	OJ991119_10.0222.C8.o1.tm	Method	TBLASTX:Maize
Start	282	End	562
GI	none	Score	80
Exons	282..368, 283..378, 296..382, 439..561, 479..562, 479..562		

Seq. No.	37952	Seq. ID	OJ991119_10.0222.C8
Gene No.	78018	Strand	+
Start	1	End	566
Name	OJ991119_10.0222.C8.o1.ts	Method	TBLASTX:Soybean
Start	286	End	562
GI	none	Score	136
Exons	286..384, 296..382, 439..561, 479..562, 479..562		

Seq. No.	37953	Seq. ID	OJ991119_10.0222.C9
Gene No.	78019	Strand	+
Start	341	End	528
Name	OJ991119_10.0222.C9.o1.gs	Method	GENSCAN
Start	341	End	528
GI	none	Score	.85
Exons	341..528		

Seq. No.	37954	Seq. ID	OJ991119_10.0222.C10
Gene No.	78020	Strand	+
Start	359	End	672
Name	OJ991119_10.0222.C10.o1.tm	Method	TBLASTX:Maize
Start	332	End	472
GI	none	Score	217
Exons	332..472, 355..465		

Seq. No.	37954	Seq. ID	OJ991119_10.0222.C10
Gene No.	78020	Strand	+
Start	359	End	672
Name	OJ991119_10.0222.C10.o1.ts	Method	TBLASTX:Soybean
Start	335	End	540
GI	none	Score	201
Exons	335..472, 339..476, 355..540		

Seq. No.	37954	Seq. ID	OJ991119_10.0222.C10
Gene No.	78020	Strand	+
Start	359	End	672
Name	OJ991119_10.0222.C10.o1.tc	Method	TBLASTX:Cress
Start	355	End	473
GI	none	Score	193
Exons	355..462, 359..472, 359..472, 360..473		

Seq. No.	37954	Seq. ID	OJ991119_10.0222.C10
Gene No.	78020	Strand	+
Start	359	End	672
Name	OJ991119_10.0222.C10.o1.gs	Method	GENSCAN
Start	359	End	469
GI	none	Score	.84
Exons	359..469		

Seq. No.	37954	Seq. ID	OJ991119_10.0222.C10
Gene No.	78020	Strand	+

Start	359	End	672
Name	OJ991119_10.0222.C10.o1.np	Method	AAT/NAP
Start	359	End	672
GI	2642159	Score	158
Exons	359..488, 575..672		
GI Descrip.	(AC003000) GDP-mannose pyrophosphorylase [Arabidopsis thaliana] gi 3598958 (AF076484) GDP-mannose pyrophosphorylase [Arabidopsis thaliana] gi 4151925 (AF108660) CYT1 protein [Arabidopsis thaliana]		

Seq. No.	37955	Seq. ID	OJ991119_10.0222.C11
Gene No.	78021	Strand	-
Start	1	End	634
Name	OJ991119_10.0222.C11.o1.np	Method	AAT/NAP
Start	1	End	634
GI	5541680	Score	647
Exons	1..634		
GI Descrip.	(AL096859) putative protein [Arabidopsis thaliana]		

Seq. No.	37955	Seq. ID	OJ991119_10.0222.C11
Gene No.	78021	Strand	-
Start	1	End	634
Name	OJ991119_10.0222.C11.o1.tc	Method	TBLASTX:Cress
Start	2	End	349
GI	none	Score	73
Exons	2..151, 9..137, 155..349, 171..251		

Seq. No.	37955	Seq. ID	OJ991119_10.0222.C11
Gene No.	78021	Strand	-
Start	1	End	634
Name	OJ991119_10.0222.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	556
GI	none	Score	65
Exons	2..148, 3..137, 142..207, 149..319, 152..343, 153..344, 167..355, 209..346, 210..344, 344..424, 347..547, 362..556		

Seq. No.	37955	Seq. ID	OJ991119_10.0222.C11
Gene No.	78021	Strand	-
Start	1	End	634
Name	OJ991119_10.0222.C11.o1.ts	Method	TBLASTX:Soybean
Start	20	End	425
GI	none	Score	73
Exons	20..148, 21..137, 153..425, 155..406		

Seq. No.	37955	Seq. ID	OJ991119_10.0222.C11
Gene No.	78021	Strand	-
Start	1	End	634
Name	OJ991119_10.0222.C11.o1.gs	Method	GENSCAN
Start	110	End	634
GI	none	Score	.5
Exons	110..634		

Seq. No.	37955	Seq. ID	OJ991119_10.0222.C11
Gene No.	78021	Strand	-
Start	1	End	634
Name	OJ991119_10.0222.C11.o1.tw	Method	TBLASTX:Wheat
Start	119	End	557

GI	none	Score	82
Exons	119..151, 155..334, 173..292, 177..332, 345..557, 362..547		
Seq. No.	37956	Seq. ID	OJ991119_10.0222.C12
Gene No.	78022	Strand	-
Start	333	End	489
Name	OJ991119_10.0222.C12.o1.gs	Method	GENSCAN
Start	333	End	489
GI	none	Score	.6
Exons	333..489		
Seq. No.	37957	Seq. ID	OJ991119_10.0222.C13
Gene No.	78023	Strand	+
Start	1	End	1253
Name	OJ991119_10.0222.C13.o1.np	Method	AAT/NAP
Start	1	End	1253
GI	3236259	Score	614
Exons	1..39, 610..885, 996..1253		
GI Descrip.	(AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana]		
Seq. No.	37957	Seq. ID	OJ991119_10.0222.C13
Gene No.	78023	Strand	+
Start	1	End	1253
Name	OJ991119_10.0222.C13.o1.gs	Method	GENSCAN
Start	610	End	1244
GI	none	Score	.81
Exons	610..885, 996..1244		
Seq. No.	37957	Seq. ID	OJ991119_10.0222.C13
Gene No.	78023	Strand	+
Start	1	End	1253
Name	OJ991119_10.0222.C13.o1.ts	Method	TBLASTX:Soybean
Start	610	End	1249
GI	none	Score	334
Exons	610..885, 615..884, 998..1249, 1005..1244, 1013..1246		
Seq. No.	37957	Seq. ID	OJ991119_10.0222.C13
Gene No.	78023	Strand	+
Start	1	End	1253
Name	OJ991119_10.0222.C13.o1.tm	Method	TBLASTX:Maize
Start	669	End	1249
GI	none	Score	361
Exons	669..881, 670..885, 674..886, 681..887, 1000..1218, 1001..1249, 1005..1244, 1007..1249		
Seq. No.	37957	Seq. ID	OJ991119_10.0222.C13
Gene No.	78023	Strand	+
Start	1	End	1253
Name	OJ991119_10.0222.C13.o1.tc	Method	TBLASTX:Cress
Start	745	End	1244
GI	none	Score	171
Exons	745..885, 747..884, 1001..1231, 1005..1244, 1041..1238		
Seq. No.	37958	Seq. ID	OJ991119_10.0222.C14
Gene No.	78024	Strand	+
Start	1	End	669
Name	OJ991119_10.0222.C14.o1.np	Method	AAT/NAP

Start	1	End	669
GI	3540206	Score	256
Exons	1..132, 583..669		
GI Descrip.	(AC004260) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37958	Seq. ID	OJ991119_10.0222.C14
Gene No.	78024	Strand	+
Start	1	End	669
Name	OJ991119_10.0222.C14.o1.ts	Method	TBLASTX:Soybean
Start	1	End	664
GI	none	Score	196
Exons	1..84, 2..154, 583..663, 584..664		

Seq. No.	37958	Seq. ID	OJ991119_10.0222.C14
Gene No.	78024	Strand	+
Start	1	End	669
Name	OJ991119_10.0222.C14.o1.tm	Method	TBLASTX:Maize
Start	2	End	664
GI	none	Score	236
Exons	2..154, 2..103, 3..149, 576..659, 583..663, 584..664		

Seq. No.	37958	Seq. ID	OJ991119_10.0222.C14
Gene No.	78024	Strand	+
Start	1	End	669
Name	OJ991119_10.0222.C14.o1.tc	Method	TBLASTX:Cress
Start	17	End	664
GI	none	Score	179
Exons	17..154, 583..663, 584..664		

Seq. No.	37958	Seq. ID	OJ991119_10.0222.C14
Gene No.	78024	Strand	+
Start	1	End	669
Name	OJ991119_10.0222.C14.o1.gs	Method	GENSCAN
Start	68	End	626
GI	none	Score	.78
Exons	68..132, 583..626		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675
Name	OJ991119_10.0222.C17.o1.tw	Method	TBLASTX:Wheat
Start	1	End	405
GI	none	Score	129
Exons	1..18, 106..219, 107..184, 114..242, 115..219, 342..404, 343..405		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675
Name	OJ991119_10.0222.C17.o2.tm	Method	TBLASTX:Maize
Start	58	End	219
GI	none	Score	132
Exons	58..219, 106..219		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675

Name	OJ991119_10.0222.C17.o1.gp	Method	AAT/GAP
Start	111	End	168
GI	76129_1.R1084	Score	130
Exons	111..168		
GI Descrip.	'1352681/sp P49598 P2C4_ARATH 2.0e-28 PROTEIN PHOSPHATASE 2C (PP2C) >gi_1076391_pir_S55457 phosphoprotein phosphatase (EC 3.1.3.16) 2C - Arabidopsis thaliana >gi_633028_dbj_BAA07287_ (D38109) protein phosphatase 2C [Arabidopsis thaliana] >gi_6006880_gb_AAF00655.1_AC008153_7 (AC008153) protein phosphatase 2C (PP2C) [Arabidopsis thaliana]'		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675
Name	OJ991119_10.0222.C17.o1.gs	Method	GENSCAN
Start	111	End	647
GI	none	Score	.94
Exons	111..276, 342..647		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675
Name	OJ991119_10.0222.C17.o1.np	Method	AAT/NAP
Start	111	End	675
GI	4336434	Score	276
Exons	111..216, 342..464, 519..675		
GI Descrip.	(AF092431) nodule-enhanced protein phosphatase type 2C [Lotus japonicus]		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675
Name	OJ991119_10.0222.C17.o1.tm	Method	TBLASTX:Maize
Start	342	End	672
GI	none	Score	210
Exons	342..638, 343..609, 607..672, 615..671		

Seq. No.	37959	Seq. ID	OJ991119_10.0222.C17
Gene No.	78025	Strand	-
Start	111	End	675
Name	OJ991119_10.0222.C17.o2.gp	Method	AAT/GAP
Start	375	End	675
GI	uC-osrocyp034f02a1	Score	559
Exons	375..675		
GI Descrip.	'1352681/sp P49598 P2C4_ARATH 4.0e-17 PROTEIN PHOSPHATASE 2C (PP2C) >gi_1076391_pir_S55457 phosphoprotein phosphatase (EC 3.1.3.16) 2C - Arabidopsis thaliana >gi_633028_dbj_BAA07287_ (D38109) protein phosphatase 2C [Arabidopsis thaliana] >gi_6006880_gb_AAF00655.1_AC008153_7 (AC008153) protein phosphatase 2C (PP2C) [Arabidopsis thaliana]'		

Seq. No.	37960	Seq. ID	OJ991119_10.0222.C20
Gene No.	78026	Strand	+
Start	813	End	887
Name	OJ991119_10.0222.C20.o1.np	Method	AAT/NAP
Start	813	End	887
GI	6721547	Score	101

Exons 813..887  
 GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No.	37961	Seq. ID	OJ991119_10.0222.C21
Gene No.	78027	Strand	-
Start	1	End	143
Name	OJ991119_10.0222.C21.o1.gp	Method	AAT/GAP
Start	1	End	143
GI	uC-osflm202120c01b1	Score	249
Exons	1..143		
GI Descrip.	'5103807/gb AAD39637.1 AC007591 2 2.0e-37 (AC007591) Contains similarity to gb_AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb_T88254 and gb_AA394650 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	37961	Seq. ID	OJ991119_10.0222.C21
Gene No.	78028	Strand	-
Start	280	End	350
Name	OJ991119_10.0222.C21.o1.gs	Method	GENSCAN
Start	280	End	350
GI	none	Score	.57
Exons	280..350		

Seq. No.	37962	Seq. ID	OJ991119_10.0222.C23
Gene No.	78029	Strand	+
Start	63	End	219
Name	OJ991119_10.0222.C23.o1.gs	Method	GENSCAN
Start	63	End	219
GI	none	Score	.41
Exons	63..219		

Seq. No.	37963	Seq. ID	OJ991119_10.0222.C24
Gene No.	78030	Strand	+
Start	209	End	504
Name	OJ991119_10.0222.C24.o1.gs	Method	GENSCAN
Start	209	End	504
GI	none	Score	.91
Exons	209..316, 411..504		

Seq. No.	37964	Seq. ID	OJ991119_10.0222.C26
Gene No.	78031	Strand	-
Start	935	End	1246
Name	OJ991119_10.0222.C26.o1.gs	Method	GENSCAN
Start	935	End	1246
GI	none	Score	.68
Exons	935..1246		

Seq. No.	37965	Seq. ID	OJ991119_10.0222.C27
Gene No.	78032	Strand	+
Start	324	End	527
Name	OJ991119_10.0222.C27.o1.gs	Method	GENSCAN
Start	324	End	527
GI	none	Score	.92
Exons	324..527		

Seq. No.	37965	Seq. ID	OJ991119_10.0222.C27
Gene No.	78033	Strand	-

Start	1	End	693
Name	OJ991119_10.0222.C27.ol.np	Method	AAT/NAP
Start	1	End	693
GI	2642156	Score	182
Exons	1..156, 493..693		
GI Descrip.	(AC003000) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37965	Seq. ID	OJ991119_10.0222.C27
Gene No.	78033	Strand	-
Start	1	End	693
Name	OJ991119_10.0222.C27.ol.tm	Method	TBLASTX:Maize
Start	2	End	566
GI	none	Score	170
Exons	2..145, 2..142, 3..149, 492..566, 492..557		

Seq. No.	37966	Seq. ID	OJ991119_10.0222.C28
Gene No.	78034	Strand	+
Start	1	End	181
Name	OJ991119_10.0222.C28.ol.gp	Method	AAT/GAP
Start	1	End	181
GI	4879074	Score	340
Exons	1..181		

Seq. No.	37966	Seq. ID	OJ991119_10.0222.C28
Gene No.	78034	Strand	+
Start	1	End	181
Name	OJ991119_10.0222.C28.ol.tm	Method	TBLASTX:Maize
Start	9	End	180
GI	none	Score	254
Exons	9..179, 10..180, 10..180		

Seq. No.	37966	Seq. ID	OJ991119_10.0222.C28
Gene No.	78034	Strand	+
Start	1	End	181
Name	OJ991119_10.0222.C28.ol.ts	Method	TBLASTX:Soybean
Start	10	End	180
GI	none	Score	173
Exons	10..180, 11..115, 15..179		

Seq. No.	37967	Seq. ID	OJ991119_10.0222.C29
Gene No.	78035	Strand	+
Start	153	End	1111
Name	OJ991119_10.0222.C29.ol.gs	Method	GENSCAN
Start	153	End	886
GI	none	Score	78
Exons	153..188, 231..321, 843..886		

Seq. No.	37967	Seq. ID	OJ991119_10.0222.C29
Gene No.	78035	Strand	+
Start	153	End	1111
Name	OJ991119_10.0222.C29.ol.ts	Method	TBLASTX:Soybean
Start	228	End	1091
GI	none	Score	103
Exons	228..317, 230..316, 833..889, 838..888, 965..1087, 966..1091		

Seq. No.	37967	Seq. ID	OJ991119_10.0222.C29
Gene No.	78035	Strand	+

Start	153	End	1111
Name	OJ991119_10.0222.C29.o1.tm	Method	TBLASTX:Maize
Start	276	End	1111
GI	none	Score	71
Exons	276..320, 825..878, 833..889, 840..878, 841..882, 903..1097, 966..1100, 968..1105, 986..1111		

Seq. No.	37967	Seq. ID	OJ991119_10.0222.C29
Gene No.	78035	Strand	+
Start	153	End	1111
Name	OJ991119_10.0222.C29.o1.tc	Method	TBLASTX:Cress
Start	833	End	1106
GI	none	Score	86
Exons	833..889, 838..888, 965..1087, 966..1106		

Seq. No.	37968	Seq. ID	OJ991119_10.0222.C31
Gene No.	78036	Strand	+
Start	229	End	485
Name	OJ991119_10.0222.C31.o1.gp	Method	AAT/GAP
Start	229	End	485
GI	61605_3.R1084	Score	448
Exons	229..485		

GI Descrip. '1402920/emb|CAA66965|\_2.0e-20 (X98321).peroxidase [Arabidopsis thaliana]'

Seq. No.	37968	Seq. ID	OJ991119_10.0222.C31
Gene No.	78037	Strand	-
Start	972	End	1558
Name	OJ991119_10.0222.C31.o1.np	Method	AAT/NAP
Start	972	End	1558
GI	5852175	Score	89
Exons	972..1126, 1538..1558		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	37968	Seq. ID	OJ991119_10.0222.C31
Gene No.	78037	Strand	-
Start	972	End	1558
Name	OJ991119_10.0222.C31.o2.gp	Method	AAT/GAP
Start	1012	End	1441
GI	2428185	Score	801
Exons	1012..1441		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	37968	Seq. ID	OJ991119_10.0222.C31
Gene No.	78038	Strand	-
Start	1459	End	1558
Name	OJ991119_10.0222.C31.o3.gp	Method	AAT/GAP
Start	1459	End	1558
GI	101153_1.R1084	Score	175
Exons	1459..1558		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37969	Seq. ID	OJ991119_10.0222.C33
Gene No.	78039	Strand	+
Start	65	End	666



Name	OJ991119_10.0222.C33.o1.tm	Method	TBLASTX:Maize
Start	35	End	664
GI	none	Score	262
Exons	35..385, 313..381, 422..664		
Seq. No.	37969	Seq. ID	OJ991119_10.0222.C33
Gene No.	78039	Strand	+
Start	65	End	666
Name	OJ991119_10.0222.C33.o1.gs	Method	GENSCAN
Start	65	End	608
GI	none	Score	.69
Exons	65..284, 318..500, 546..608		
Seq. No.	37969	Seq. ID	OJ991119_10.0222.C33
Gene No.	78039	Strand	+
Start	65	End	666
Name	OJ991119_10.0222.C33.o1.np	Method	AAT/NAP
Start	149	End	666
GI	4585936	Score	237
Exons	149..666		
GI Descrip.	(AC007211) putative helicase [Arabidopsis thaliana]		

Seq. No.	37970	Seq. ID	OJ991119_10.0222.C34
Gene No.	78040	Strand	+
Start	1	End	436
Name	OJ991119_10.0222.C34.o1.gp	Method	AAT/GAP
Start	1	End	436
GI	none	Score	772
Exons	1..436		

Seq. No.	37970	Seq. ID	OJ991119_10.0222.C34
Gene No.	78041	Strand	-
Start	373	End	680
Name	OJ991119_10.0222.C34.o2.gp	Method	AAT/GAP
Start	191	End	680
GI	19519_1.R1084	Score	814
Exons	191..680		
GI Descrip.	'4103324 1.0e-166 (AF022716) GDP-mannose pyrophosphorylase [Solanum tuberosum]'		

Seq. No.	37970	Seq. ID	OJ991119_10.0222.C34
Gene No.	78041	Strand	-
Start	373	End	680
Name	OJ991119_10.0222.C34.o1.tm	Method	TBLASTX:Maize
Start	360	End	679
GI	none	Score	287
Exons	360..617, 365..676, 373..678, 374..679		

Seq. No.	37970	Seq. ID	OJ991119_10.0222.C34
Gene No.	78041	Strand	-
Start	373	End	680
Name	OJ991119_10.0222.C34.o1.ts	Method	TBLASTX:Soybean
Start	368	End	679
GI	none	Score	87
Exons	368..427, 371..676, 373..678, 375..593, 479..679		

Seq. No.	37970	Seq. ID	OJ991119_10.0222.C34
----------	-------	---------	----------------------

Gene No. 78041  
 Start 373  
 Name OJ991119\_10.0222.C34.o1.tc  
 Start 372  
 GI none  
 Exons 372..599, 373..678, 479..679

Strand -  
 End 680  
 Method TBLASTX:Cress  
 End 679  
 Score 138

Seq. No. 37970  
 Gene No. 78041  
 Start 373  
 Name OJ991119\_10.0222.C34.o1.gs  
 Start 373  
 GI none  
 Exons 373..582

Seq. ID OJ991119\_10.0222.C34  
 Strand -  
 End 680  
 Method GENSCAN  
 End 582  
 Score .58

Seq. No. 37970  
 Gene No. 78041  
 Start 373  
 Name OJ991119\_10.0222.C34.o1.np  
 Start 376  
 GI 2642159  
 Exons 376..680

Seq. ID OJ991119\_10.0222.C34  
 Strand -  
 End 680  
 Method AAT/NAP  
 End 680  
 Score 482

GI Descrip. (AC003000) GDP-mannose pyrophosphorylase [Arabidopsis thaliana]  
 gi|3598958 (AF076484) GDP-mannose pyrophosphorylase [Arabidopsis  
 thaliana] gi|4151925 (AF108660) CYT1 protein [Arabidopsis  
 thaliana]

Seq. No. 37971  
 Gene No. 78042  
 Start 541  
 Name OJ991119\_10.0222.C35.o1.gs  
 Start 541  
 GI none  
 Exons 541..603

Seq. ID OJ991119\_10.0222.C35  
 Strand +  
 End 603  
 Method GENSCAN  
 End 603  
 Score .81

Seq. No. 37972  
 Gene No. 78043  
 Start 1  
 Name OJ991119\_10.0222.C37.o1.np  
 Start 1  
 GI 4895205  
 Exons 1..148, 238..543

Seq. ID OJ991119\_10.0222.C37  
 Strand +  
 End 543  
 Method AAT/NAP  
 End 543  
 Score 381

GI Descrip. (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]

Seq. No. 37972  
 Gene No. 78043  
 Start 1  
 Name OJ991119\_10.0222.C37.o1.tm  
 Start 1  
 GI none  
 Exons 1..147, 2..148, 2..157, 94..150, 231..356, 238..390, 253..390,  
 254..391

Seq. ID OJ991119\_10.0222.C37  
 Strand +  
 End 543  
 Method TBLASTX:Maize  
 End 391  
 Score 224

Seq. No. 37972  
 Gene No. 78043  
 Start 1  
 Name OJ991119\_10.0222.C37.o1.ts

Seq. ID OJ991119\_10.0222.C37  
 Strand +  
 End 543  
 Method TBLASTX:Soybean

Start	1	End	472
GI	none	Score	192
Exons	1..147, 2..148, 2..157, 244..468, 282..356, 325..468, 341..472, 341..469		

Seq. No.	37972	Seq. ID	OJ991119_10.0222.C37
Gene No.	78043	Strand	+
Start	1	End	543
Name	OJ991119_10.0222.C37.o1.tc	Method	TBLASTX:Cress
Start	8	End	351
GI	none	Score	194
Exons	8..148, 10..147, 283..351, 294..350		

Seq. No.	37973	Seq. ID	OJ991119_10.0222.C38
Gene No.	78044	Strand	-
Start	39	End	320
Name	OJ991119_10.0222.C38.o1.gs	Method	GENSCAN
Start	39	End	320
GI	none	Score	.63
Exons	39..320		

Seq. No.	37974	Seq. ID	OJ991119_10.0222.C41
Gene No.	78045	Strand	+
Start	1	End	523
Name	OJ991119_10.0222.C41.o1.np	Method	AAT/NAP
Start	1	End	523
GI	6006372	Score	147
Exons	1..97, 396..523		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	37974	Seq. ID	OJ991119_10.0222.C41
Gene No.	78045	Strand	+
Start	1	End	523
Name	OJ991119_10.0222.C41.o1.gs	Method	GENSCAN
Start	289	End	465
GI	none	Score	.46
Exons	289..465		

Seq. No.	37975	Seq. ID	OJ991119_10.0222.C45
Gene No.	78046	Strand	-
Start	1	End	89
Name	OJ991119_10.0222.C45.o1.np	Method	AAT/NAP
Start	1	End	89
GI	6815072	Score	85
Exons	1..89		
GI Descrip.	(AP001080). Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	37976	Seq. ID	OJ991119_10.0222.C46
Gene No.	78047	Strand	+
Start	149	End	349
Name	OJ991119_10.0222.C46.o1.gs	Method	GENSCAN
Start	149	End	349
GI	none	Score	.61
Exons	149..349		

Seq. No.	37977	Seq. ID	OJ991119_10.0222.C47
----------	-------	---------	----------------------

Gene No.	78048	Strand	+
Start	618	End	772
Name	OJ991119_10.0222.C47.ol.gs	Method	GENSCAN
Start	618	End	772
GI	none	Score	.8
Exons	618..772		

Seq. No.	37978	Seq. ID	OJ991119_10.0222.C51
Gene No.	78049	Strand	+
Start	1	End	698
Name	OJ991119_10.0222.C51.ol.np	Method	AAT/NAP
Start	1	End	698
GI	6225816	Score	431
Exons	1..36, 117..219, 307..468, 593..698		
GI Descrip.	DELTA 1-PYRROLINE-5-CARBOXYLATE SYNTHETASE (P5CS) [INCLUDES: GLUTAMATE 5-KINASE (GAMMA-GLUTAMYL KINASE) (GK); GAMMA-GLUTAMYL PHOSPHATE REDUCTASE (GPR) (GLUTAMATE-5-SEMIALDEHYDE DEHYDROGENASE) (GLUTAMYL-GAMMA-SEMIALDEHYDE... gi 1928960 (U92286) pyrroline-5-carboxylate synthetase [Actinidia deliciosa]		

Seq. No.	37978	Seq. ID	OJ991119_10.0222.C51
Gene No.	78049	Strand	+
Start	1	End	698
Name	OJ991119_10.0222.C51.ol.ts	Method	TBLASTX:Soybean
Start	93	End	657
GI	none	Score	161
Exons	93..227, 112..228, 304..468, 348..461, 581..655, 582..629, 592..657, 593..655		

Seq. No.	37978	Seq. ID	OJ991119_10.0222.C51
Gene No.	78049	Strand	+
Start	1	End	698
Name	OJ991119_10.0222.C51.ol.tm	Method	TBLASTX:Maize
Start	113	End	697
GI	none	Score	79
Exons	113..223, 114..227, 115..228, 298..468, 304..468, 305..469, 348..491, 592..696, 593..697		

Seq. No.	37978	Seq. ID	OJ991119_10.0222.C51
Gene No.	78049	Strand	+
Start	1	End	698
Name	OJ991119_10.0222.C51.ol.tc	Method	TBLASTX:Cress
Start	114	End	697
GI	none	Score	138
Exons	114..227, 115..228, 280..468, 304..468, 582..662, 583..684, 592..690, 593..697		

Seq. No.	37978	Seq. ID	OJ991119_10.0222.C51
Gene No.	78049	Strand	+
Start	1	End	698
Name	OJ991119_10.0222.C51.ol.gs	Method	GENSCAN
Start	117	End	468
GI	none	Score	.9
Exons	117..219, 307..468		

Seq. No.	37979	Seq. ID	OJ991119_10.0222.C53
----------	-------	---------	----------------------

Gene No.	78050	Strand	-
Start	92	End	348
Name	OJ991119_10.0222.C53.o1.gs	Method	GENSCAN
Start	92	End	348
GI	none	Score	.75
Exons	92..268, 274..348		
Seq. No.	37980	Seq. ID	OJ991119_10.0222.C54
Gene No.	78051	Strand	+
Start	1	End	494
Name	OJ991119_10.0222.C54.o1.np	Method	AAT/NAP
Start	1	End	494
GI	2642157	Score	230
Exons	1..87, 362..494		
GI Descrip.	(AC003000) unknown protein [Arabidopsis thaliana]		
Seq. No.	37981	Seq. ID	OJ991119_10.0222.C55
Gene No.	78052	Strand	+
Start	289	End	348
Name	OJ991119_10.0222.C55.o1.gs	Method	GENSCAN
Start	289	End	348
GI	none	Score	.61
Exons	289..348		
Seq. No.	37982	Seq. ID	OJ991119_10.0222.C56
Gene No.	78053	Strand	-
Start	3430	End	8512
Name	OJ991119_10.0222.C56.o2.gs	Method	GENSCAN
Start	3430	End	8512
GI	none	Score	.53
Exons	3430..3819, 3906..4258, 4420..4485, 5543..5783, 5998..6562, 8436..8512		
Seq. No.	37982	Seq. ID	OJ991119_10.0222.C56
Gene No.	78053	Strand	-
Start	3430	End	8512
Name	OJ991119_10.0222.C56.o1.tc	Method	TBLASTX:Cress
Start	3489	End	3809
GI	none	Score	175
Exons	3489..3809, 3511..3807		
Seq. No.	37982	Seq. ID	OJ991119_10.0222.C56
Gene No.	78053	Strand	-
Start	3430	End	8512
Name	OJ991119_10.0222.C56.o3.tc	Method	TBLASTX:Cress
Start	4495	End	5789
GI	none	Score	89
Exons	4495..4599, 5538..5789, 5574..5750, 5668..5775		
Seq. No.	37982	Seq. ID	OJ991119_10.0222.C56
Gene No.	78053	Strand	-
Start	3430	End	8512
Name	OJ991119_10.0222.C56.o1.np	Method	AAT/NAP
Start	5812	End	7156
GI	2130152	Score	89
Exons	5812..5857, 6900..7156		
GI Descrip.	hypothetical protein 173 - maize chloroplast		

gi|902272|emb|CAA60337| (X86563) ORF173 [Zea mays]  
gi|902300|emb|CAA60364| (X86563) ORF173 [Zea mays]

Seq. No.	37982	Seq. ID	OJ991119_10.0222.C56
Gene No.	78053	Strand	-
Start	3430	End	8512
Name	OJ991119_10.0222.C56.o2.tc	Method	TBLASTX:Cress
Start	6124	End	6427
GI	none	Score	90
Exons	6124..6426, 6212..6427		

Seq. No.	37983	Seq. ID	OJ991119_10.0222.C57
Gene No.	78054	Strand	-
Start	183	End	5389
Name	OJ991119_10.0222.C57.o1.gs	Method	GENSCAN
Start	183	End	5389
GI	none	Score	.49
Exons	183..278, 4935..5021, 5188..5389		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o1.np	Method	AAT/NAP
Start	1	End	4414
GI	4585985	Score	2037
Exons	1..21, 781..1305, 1548..3358, 3591..4038, 4066..4414		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o1.gs	Method	GENSCAN
Start	904	End	3592
GI	none	Score	.46
Exons	904..2320, 2739..3592		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o1.tm	Method	TBLASTX:Maize
Start	948	End	1767
GI	none	Score	64
Exons	948..983, 948..1001, 949..1002, 1006..1470, 1017..1322, 1378..1452, 1513..1767, 1515..1766		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o1.tw	Method	TBLASTX:Wheat
Start	1591	End	1983
GI	none	Score	244
Exons	1591..1887, 1612..1878, 1671..1886, 1915..1983		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o3.tm	Method	TBLASTX:Maize

Start	1768	End	2084
GI	none	Score	187
Exons	1768..1914, 1773..1904, 1909..2079, 1920..2084		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o4.tm	Method	TBLASTX:Maize
Start	3143	End	3562
GI	none	Score	81
Exons	3143..3211, 3251..3352, 3383..3562		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o2.tm	Method	TBLASTX:Maize
Start	3740	End	4130
GI	none	Score	437
Exons	3740..4129, 3741..4130		

Seq. No.	37984	Seq. ID	OJ991119_10.0222.C58
Gene No.	78055	Strand	+
Start	1	End	4414
Name	OJ991119_10.0222.C58.o2.np	Method	AAT/NAP
Start	4158	End	4414
GI	6580152	Score	109
Exons	4158..4414		
GI Descrip.	(AL132968) putative protein [Arabidopsis thaliana]		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78056	Strand	+
Start	41	End	2544
Name	OJ991119_10.0222.C59.o1.gs	Method	GENSCAN
Start	41	End	2544
GI	none	Score	.86
Exons	41..184, 338..548, 636..735, 827..1045, 1122..1242, 1328..1485, 1567..1942, 2044..2153, 2473..2544		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78057	Strand	-
Start	2728	End	8689
Name	OJ991119_10.0222.C59.o2.gs	Method	GENSCAN
Start	2728	End	8689
GI	none	Score	.51
Exons	2728..2881, 4235..4834, 5027..5118, 5331..5708, 5989..6387, 7806..7833, 8535..8689		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78057	Strand	-
Start	2728	End	8689
Name	OJ991119_10.0222.C59.o1.gp	Method	AAT/GAP
Start	4051	End	4552
GI	uC-osflcyp122g03b1	Score	988
Exons	4051..4552		
GI Descrip.	'3063465 2.0e-09 (AC003981) F22013.27 [Arabidopsis thaliana]'		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
----------	-------	---------	----------------------

Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o2.tm	Method	TBLASTX:Maize
Start	332	End	1044
GI	none	Score	226
Exons	332..547, 332..490, 334..549, 629..736, 800..1030, 828..1040, 845..1042, 846..1043, 847..1044		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o4.tm	Method	TBLASTX:Maize
Start	5020	End	5690
GI	none	Score	74
Exons	5020..5121, 5329..5460, 5332..5391, 5512..5670, 5519..5683, 5578..5679, 5592..5690		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o2.tc	Method	TBLASTX:Cress
Start	6285	End	6639
GI	none	Score	107
Exons	6285..6458, 6358..6639, 6362..6634		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o3.ts	Method	TBLASTX:Soybean
Start	6376	End	6636
GI	none	Score	68
Exons	6376..6504, 6377..6499, 6520..6636		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o5.tm	Method	TBLASTX:Maize
Start	6457	End	6636
GI	none	Score	81
Exons	6457..6636, 6461..6634		

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o1.np	Method	AAT/NAP
Start	9985	End	15921
GI	4204793	Score	2048
Exons	9985..10045, 10809..11146, 11627..13519, 13610..13833, 13930..14246, 14365..14660, 14753..14917, 15003..15178, 15356..15598, 15784..15921		

GI Descrip. (U52079) P-glycoprotein [Solanum tuberosum]

Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o1.ts	Method	TBLASTX:Soybean
Start	10731	End	14014



GI	none	Score	105
Exons	10731..10760, 10853..11011, 11066..11146, 11076..11147, 11624..11881, 13205..13441, 13439..13519, 13476..13517, 13607..13837, 13644..13787, 13893..14012, 13928..14014		
Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o3.gs	Method	GENSCAN
Start	10799	End	15820
GI	none	Score	.95
Exons	10799..11146, 11627..13519, 13610..14246, 14293..14660, 14753..14917, 15003..15178, 15268..15322, 15416..15820		
Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o1.tc	Method	TBLASTX:Cress
Start	10865	End	15183
GI	none	Score	166
Exons	10865..11146, 10868..11146, 10890..11150, 10893..11147, 11624..11881, 11624..11881, 11951..12022, 11951..12022, 12059..12430, 12473..12883, 13232..13519, 13238..13519, 13242..13385, 13254..13517, 13473..13517, 13607..13837, 13607..13837, 13701..13877, 13925..14140, 13926..14267, 13928..14221, 13929..14141, 14150..14284, 14367..14657, 14407..14658, 14421..14657, 15000..15179, 15001..15183, 15048..15179		
Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o1.tm	Method	TBLASTX:Maize
Start	10868	End	14195
GI	none	Score	191
Exons	10868..11146, 10893..11147, 11624..11881, 11951..12025, 13241..13519, 13260..13385, 13379..13519, 13607..13834, 13925..14194, 13926..14195		
Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o1.tw	Method	TBLASTX:Wheat
Start	10901	End	13517
GI	none	Score	150
Exons	10901..11143, 10905..11144, 13277..13516, 13278..13517		
Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59
Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o2.ts	Method	TBLASTX:Soybean
Start	11951	End	14654
GI	none	Score	40
Exons	11951..12025, 11979..12026, 12077..12430, 12105..12431, 12473..12790, 14024..14245, 14379..14654		
Seq. No.	37985	Seq. ID	OJ991119_10.0222.C59

Gene No.	78058	Strand	-
Start	10799	End	15921
Name	OJ991119_10.0222.C59.o3.tm	Method	TBLASTX:Maize
Start	12077	End	12841
GI	none	Score	148
Exons	12077..12430, 12527..12841		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78059	Strand	+
Start	59	End	175
Name	OJ991119_10.0222.C60.o1.gs	Method	GENSCAN
Start	59	End	175
GI	none	Score	.6
Exons	59..175		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78060	Strand	-
Start	1733	End	6186
Name	OJ991119_10.0222.C60.o1.gp	Method	AAT/GAP
Start	1465	End	2252
GI	none	Score	1000
Exons	1465..1890, 1973..2067, 2220..2252		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78060	Strand	-
Start	1733	End	6186
Name	OJ991119_10.0222.C60.o1.np	Method	AAT/NAP
Start	1692	End	6186
GI	5764395	Score	690
Exons	1692..1828, 3346..5037, 6132..6186		
GI Descrip.	(AF159587) far-red impaired response protein [Arabidopsis thaliana]		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78060	Strand	-
Start	1733	End	6186
Name	OJ991119_10.0222.C60.o2.gs	Method	GENSCAN
Start	1733	End	6177
GI	none	Score	.85
Exons	1733..1890, 2494..2563, 3082..3141, 3227..5095, 5194..5287, 6092..6177		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78060	Strand	-
Start	1733	End	6186
Name	OJ991119_10.0222.C60.o2.np	Method	AAT/NAP
Start	3991	End	5282
GI	5051789	Score	76
Exons	3991..4047, 5178..5282		
GI Descrip.	(AL078637) putative protein [Arabidopsis thaliana]		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o3.tc	Method	TBLASTX:Cress
Start	3350	End	3670
GI	none	Score	77

Exons 3350..3670, 3360..3554

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o3.tm	Method	TBLASTX:Maize
Start	3372	End	3815
GI	none	Score	224
Exons	3372..3815, 3372..3518, 3374..3811		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o2.ts	Method	TBLASTX:Soybean
Start	3710	End	4408
GI	none	Score	120
Exons	3710..3790, 3848..4117, 4160..4408, 4161..4406		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o2.tw	Method	TBLASTX:Wheat
Start	3803	End	4234
GI	none	Score	77
Exons	3803..4117, 4160..4234		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o2.tm	Method	TBLASTX:Maize
Start	3819	End	4255
GI	none	Score	81
Exons	3819..3959, 3824..4117, 4023..4115, 4151..4255, 4155..4226, 4159..4254		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o2.tc	Method	TBLASTX:Cress
Start	4160	End	4495
GI	none	Score	207
Exons	4160..4495		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o4.tm	Method	TBLASTX:Maize
Start	4256	End	4529
GI	none	Score	141
Exons	4256..4525, 4257..4529		

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o5.tm	Method	TBLASTX:Maize
Start	4616	End	5014
GI	none	Score	108

Exons 4616..4846, 4686..4847, 4713..4847, 4763..4918, 4788..4901,  
4934..5014

Seq. No. 37986 Seq. ID OJ991119\_10.0222.C60  
Gene No. 78061 Strand -  
Start 7991 End 12561  
Name OJ991119\_10.0222.C60.ol.ts Method TBLASTX:Soybean  
Start 7982 End 12514  
GI none Score 127  
Exons 7982..8032, 8087..8341, 8094..8210, 8292..8345, 8396..9223,  
8433..8831, 8886..9224, 12098..12514, 12129..12482

Seq. No. 37986 Seq. ID OJ991119\_10.0222.C60  
Gene No. 78061 Strand -  
Start 7991 End 12561  
Name OJ991119\_10.0222.C60.ol.tm Method TBLASTX:Maize  
Start 7991 End 12502  
GI none Score 218  
Exons 7991..8032, 7992..8210, 8087..9214, 8292..8834, 8886..9209,  
8888..9220, 9117..9224, 12098..12166, 12098..12502, 12129..12488

Seq. No. 37986 Seq. ID OJ991119\_10.0222.C60  
Gene No. 78061 Strand -  
Start 7991 End 12561  
Name OJ991119\_10.0222.C60.o3.gs Method GENSCAN  
Start 7991 End 12538  
GI none Score .8  
Exons 7991..9208, 12101..12538

Seq. No. 37986 Seq. ID OJ991119\_10.0222.C60  
Gene No. 78061 Strand -  
Start 7991 End 12561  
Name OJ991119\_10.0222.C60.o3.np Method AAT/NAP  
Start 8000 End 12517  
GI 3075394 Score 1927  
Exons 8000..9208, 12101..12517  
GI Descrip. (AC004484) beta-ketoacyl-CoA synthase (FIDDLEHEAD) [Arabidopsis  
thaliana] gi|3559809|emb|CAA09311| (AJ010713) fiddlehead protein  
[Arabidopsis thaliana]

Seq. No. 37986 Seq. ID OJ991119\_10.0222.C60  
Gene No. 78061 Strand -  
Start 7991 End 12561  
Name OJ991119\_10.0222.C60.ol.tc Method TBLASTX:Cress  
Start 8009 End 12532  
GI none Score 105  
Exons 8009..8032, 8087..8341, 8094..8204, 8292..8345, 8399..9064,  
8403..8831, 8886..9056, 9080..9211, 9102..9209, 12098..12175,  
12126..12185, 12242..12532, 12243..12485

Seq. No. 37986 Seq. ID OJ991119\_10.0222.C60  
Gene No. 78061 Strand -  
Start 7991 End 12561  
Name OJ991119\_10.0222.C60.ol.tw Method TBLASTX:Wheat  
Start 8087 End 8215  
GI none Score 75  
Exons 8087..8215, 8093..8182, 8094..8210

Seq. No.	37986	Seq. ID	OJ991119_10.0222.C60
Gene No.	78061	Strand	-
Start	7991	End	12561
Name	OJ991119_10.0222.C60.o2.gp	Method	AAT/GAP
Start	8092	End	12561
GI	28094_1.R1084	Score	2972
Exons	8092..9208, 12101..12561		
GI Descrip.	'3075394 0.0e+00 (AC004484) putative beta-ketoacyl-CoA synthase [Arabidopsis thaliana] >gi_3559809_emb_CAA09311_ (AJ010713) fiddlehead protein [Arabidopsis thaliana]'		

Seq. No.	37987	Seq. ID	OJ991119_10.0222.C61
Gene No.	78062	Strand	-
Start	728	End	1008
Name	OJ991119_10.0222.C61.o1.gs	Method	GENSCAN
Start	728	End	1008
GI	none	Score	.75
Exons	728..903, 945..1008		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78063	Strand	+
Start	4751	End	6203
Name	OJ991119_10.0222.C62.o2.gs	Method	GENSCAN
Start	4751	End	6203
GI	none	Score	.69
Exons	4751..4803, 5444..5650, 5750..6203		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78064	Strand	+
Start	6255	End	6650
Name	OJ991119_10.0222.C62.o1.gp	Method	AAT/GAP
Start	6255	End	6650
GI	none	Score	586
Exons	6255..6650		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78065	Strand	+
Start	8208	End	8288
Name	OJ991119_10.0222.C62.o3.gp	Method	AAT/GAP
Start	8208	End	8288
GI	5867_1.R1084	Score	113
Exons	8208..8288		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78066	Strand	-
Start	1940	End	3161
Name	OJ991119_10.0222.C62.o1.np	Method	AAT/NAP
Start	1940	End	3161
GI	2191151	Score	356

Exons 1940..3161  
 GI Descrip. (AF007269) contains similarity to membrane associated  
 salt-inducible protein [Arabidopsis thaliana]

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78067	Strand	-
Start	6276	End	6648
Name	OJ991119_10.0222.C62.o2.gp	Method	AAT/GAP
Start	6276	End	6648
GI	none	Score	587
Exons	6276..6648		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78068	Strand	-
Start	6831	End	7244
Name	OJ991119_10.0222.C62.o3.gs	Method	GENSCAN
Start	6831	End	7244
GI	none	Score	.76
Exons	6831..7244		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78069	Strand	-
Start	14622	End	15095
Name	OJ991119_10.0222.C62.o2.ts	Method	TBLASTX:Soybean
Start	2087	End	2452
GI	none	Score	109
Exons	2087..2407, 2114..2452, 2127..2426		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78069	Strand	-
Start	14622	End	15095
Name	OJ991119_10.0222.C62.o1.tc	Method	TBLASTX:Cress
Start	2114	End	2387
GI	none	Score	107
Exons	2114..2386, 2127..2387		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78069	Strand	-
Start	14622	End	15095
Name	OJ991119_10.0222.C62.o2.tm	Method	TBLASTX:Maize
Start	2114	End	2395
GI	none	Score	207
Exons	2114..2395		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78069	Strand	-
Start	14622	End	15095
Name	OJ991119_10.0222.C62.o1.ts	Method	TBLASTX:Soybean
Start	2667	End	3187
GI	none	Score	98
Exons	2667..2822, 2669..3178, 2687..2833, 2966..3007, 3083..3187		

Seq. No.	37988	Seq. ID	OJ991119_10.0222.C62
Gene No.	78069	Strand	-
Start	14622	End	15095
Name	OJ991119_10.0222.C62.o4.gp	Method	AAT/GAP
Start	14622	End	15095

GI uC-osroM202040g07b1 Score 892  
 Exons 14622..15095  
 GI Descrip. '5882728/gb|AAD55281.1|AC008263\_12 9.0e-10 (AC008263) ESTs  
 gb\_T75898, gb\_R65457, gb\_AA597517 and gb\_AA597420 come from this  
 gene. [Arabidopsis thaliana]'

Seq. No. 37988 Seq. ID OJ991119\_10.0222.C62  
 Gene No. 78069 Strand -  
 Start 14622 End 15095  
 Name OJ991119\_10.0222.C62.ol.tm Method TBLASTX:Maize  
 Start 14850 End 15095  
 GI none Score 57  
 Exons 14850..15095, 14922..14975, 14923..15093, 15051..15095

Seq. No. 37989 Seq. ID OJ991029\_14.0229.C1  
 Gene No. 78070 Strand -  
 Start 1168 End 1316  
 Name OJ991029\_14.0229.C1.ol.gs Method GENSCAN  
 Start 1168 End 1316  
 GI none Score .42  
 Exons 1168..1316

Seq. No. 37990 Seq. ID OJ991029\_14.0229.C3  
 Gene No. 78071 Strand +  
 Start 1 End 517  
 Name OJ991029\_14.0229.C3.ol.np Method AAT/NAP  
 Start 1 End 514  
 GI 6630685 Score 734  
 Exons 1..514  
 GI Descrip. (AP000969) Similar to copia-type pol polyprotein. (AF105716)  
 [Oryza sativa]

Seq. No. 37990 Seq. ID OJ991029\_14.0229.C3  
 Gene No. 78071 Strand +  
 Start 1 End 517  
 Name OJ991029\_14.0229.C3.ol.tm Method TBLASTX:Maize  
 Start 10 End 517  
 GI none Score 283  
 Exons 10..198, 14..199, 15..200, 16..201, 176..517, 200..511

Seq. No. 37990 Seq. ID OJ991029\_14.0229.C3  
 Gene No. 78071 Strand +  
 Start 1 End 517  
 Name OJ991029\_14.0229.C3.ol.ts Method TBLASTX:Soybean  
 Start 39 End 499  
 GI none Score 163  
 Exons 39..209, 83..190, 266..499

Seq. No. 37990 Seq. ID OJ991029\_14.0229.C3  
 Gene No. 78071 Strand +  
 Start 1 End 517  
 Name OJ991029\_14.0229.C3.ol.tw Method TBLASTX:Wheat  
 Start 48 End 451  
 GI none Score 90  
 Exons 48..200, 275..451, 334..447

Seq. No. 37991 Seq. ID OJ991029\_14.0229.C4

Gene No.	78072	Strand	+
Start	315	End	1994
Name	OJ991029_14.0229.C4.o1.gs	Method	GENSCAN
Start	315	End	1994
GI	none	Score	.61
Exons	315..1994		
Seq. No.	37992	Seq. ID	OJ991029_14.0229.C5
Gene No.	78073	Strand	+
Start	76	End	1690
Name	OJ991029_14.0229.C5.o1.np	Method	AAT/NAP
Start	76	End	1690
GI	5852093	Score	54
Exons	76..137, 1454..1568, 1639..1690		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	37993	Seq. ID	OJ991029_14.0229.C6
Gene No.	78074	Strand	-
Start	5382	End	5594
Name	OJ991029_14.0229.C6.o2.gs	Method	GENSCAN
Start	5382	End	5594
GI	none	Score	.91
Exons	5382..5594		
Seq. No.	37994	Seq. ID	OJ991029_14.0229.C7
Gene No.	78075	Strand	+
Start	21	End	842
Name	OJ991029_14.0229.C7.o1.gs	Method	GENSCAN
Start	21	End	842
GI	none	Score	.73
Exons	21..105, 781..842		
Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78076	Strand	+
Start	31	End	5062
Name	OJ991029_14.0229.C8.o1.gs	Method	GENSCAN
Start	31	End	1061
GI	none	Score	.76
Exons	31..181, 589..744, 916..1061		
Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78076	Strand	+
Start	31	End	5062
Name	OJ991029_14.0229.C8.o1.np	Method	AAT/NAP
Start	409	End	573
GI	4416301	Score	83
Exons	409..573		
GI Descrip.	(AF105716) gag protein [Zea mays]		
Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78076	Strand	+
Start	31	End	5062
Name	OJ991029_14.0229.C8.o2.np	Method	AAT/NAP
Start	583	End	4990
GI	3645899	Score	1887
Exons	583..2044, 2156..2474, 4946..4990		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		



Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78076	Strand	+
Start	31	End	5062
Name	OJ991029_14.0229.C8.o3.np	Method	AAT/NAP
Start	638	End	5062
GI	6063554	Score	322
Exons	638..658, 3080..3421, 3559..3750, 4222..4249, 4888..5062		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78076	Strand	+
Start	31	End	5062
Name	OJ991029_14.0229.C8.o2.gs	Method	GENSCAN
Start	1401	End	2486
GI	none	Score	.83
Exons	1401..2486		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78076	Strand	+
Start	31	End	5062
Name	OJ991029_14.0229.C8.o1.gp	Method	AAT/GAP
Start	4468	End	4902
GI	2428185	Score	580
Exons	4468..4902		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78077	Strand	+
Start	5434	End	5706
Name	OJ991029_14.0229.C8.o2.gp	Method	AAT/GAP
Start	5434	End	5706
GI	61605_1.R1084	Score	466
Exons	5434..5706		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78078	Strand	+
Start	6303	End	11498
Name	OJ991029_14.0229.C8.o4.np	Method	AAT/NAP
Start	6303	End	11498
GI	4680179	Score	748
Exons	6303..7371, 11438..11498		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78078	Strand	+
Start	6303	End	11498
Name	OJ991029_14.0229.C8.o5.np	Method	AAT/NAP
Start	6527	End	10031
GI	6063554	Score	107
Exons	6527..6586, 8093..8387, 8505..8699, 10012..10031		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464)		

correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78078	Strand	+
Start	6303	End	11498
Name	OJ991029_14.0229.C8.o4.gs	Method	GENSCAN
Start	8544	End	11118
GI	none	Score	.42
Exons	8544..8605, 9165..9289, 10450..10783, 10806..11118		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o3.tm	Method	TBLASTX:Maize
Start	834	End	1228
GI	none	Score	134
Exons	834..953, 951..1166, 951..1049, 958..1098, 959..1165, 1034..1216, 1046..1228, 1051..1227		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o1.tw	Method	TBLASTX:Wheat
Start	993	End	1565
GI	none	Score	87
Exons	993..1058, 995..1054, 1061..1240, 1069..1221, 1252..1278, 1258..1479, 1280..1477, 1491..1565, 1493..1564		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o1.tm	Method	TBLASTX:Maize
Start	1228	End	1922
GI	none	Score	101
Exons	1228..1302, 1229..1300, 1300..1476, 1301..1477, 1484..1795, 1486..1614, 1491..1922, 1493..1879, 1503..1916		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o3.ts	Method	TBLASTX:Soybean
Start	1271	End	1488
GI	none	Score	183
Exons	1271..1474, 1279..1488		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o2.ts	Method	TBLASTX:Soybean
Start	1491	End	1871
GI	none	Score	181
Exons	1491..1721, 1493..1600, 1770..1871		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526

Name	OJ991029_14.0229.C8.o4.tw	Method	TBLASTX:Wheat
Start	1653	End	1913
GI	none	Score	91
Exons	1653..1721, 1730..1879, 1755..1892, 1767..1913		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o2.tm	Method	TBLASTX:Maize
Start	2202	End	2471
GI	none	Score	346
Exons	2202..2471, 2238..2462		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o1.ts	Method	TBLASTX:Soybean
Start	2264	End	2474
GI	5509260	Score	226
Exons	2264..2473, 2265..2474		
GI Descrip.	-		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o3.tw	Method	TBLASTX:Wheat
Start	6422	End	6604
GI	none	Score	185
Exons	6422..6604, 6424..6603		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o2.tw	Method	TBLASTX:Wheat
Start	6656	End	6952
GI	none	Score	287
Exons	6656..6952, 6679..6849		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o4.tm	Method	TBLASTX:Maize
Start	6656	End	6952
GI	none	Score	245
Exons	6656..6952, 6679..6843, 6884..6952		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o6.np	Method	AAT/NAP
Start	9346	End	12526
GI	6063554	Score	175
Exons	9346..9517, 10585..10629, 10714..11075, 12447..12526		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o5.gs	Method	GENSCAN
Start	11750	End	11854
GI	none	Score	.4
Exons	11750..11854		

Seq. No.	37995	Seq. ID	OJ991029_14.0229.C8
Gene No.	78079	Strand	-
Start	9346	End	12526
Name	OJ991029_14.0229.C8.o7.np	Method	AAT/NAP
Start	11922	End	12526
GI	6721559	Score	295
Exons	11922..12057, 12086..12526		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	37996	Seq. ID	OJ991029_14.0229.C9
Gene No.	78080	Strand	-
Start	947	End	1714
Name	OJ991029_14.0229.C9.o1.np	Method	AAT/NAP
Start	947	End	1714
GI	4680183	Score	172
Exons	947..1036, 1644..1714		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
Gene No.	78081	Strand	+
Start	1	End	144
Name	OJ991029_14.0229.C10.o1.gp	Method	AAT/GAP
Start	1	End	144
GI	61605_1.R1084	Score	249
Exons	1..144		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
Gene No.	78082	Strand	+
Start	62	End	780
Name	OJ991029_14.0229.C10.o1.gs	Method	GENSCAN
Start	62	End	468
GI	none	Score	.56
Exons	62..468		

Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
Gene No.	78082	Strand	+
Start	62	End	780
Name	OJ991029_14.0229.C10.o1.np	Method	AAT/NAP
Start	146	End	780
GI	6630685	Score	879
Exons	146..780		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
----------	-------	---------	----------------------

Gene No.	78082	Strand	+
Start	62	End	780
Name	OJ991029_14.0229.C10.ol.tc	Method	TBLASTX:Cress
Start	148	End	429
GI	none	Score	218
Exons	148..429, 153..410		
Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
Gene No.	78082	Strand	+
Start	62	End	780
Name	OJ991029_14.0229.C10.ol.ts	Method	TBLASTX:Soybean
Start	157	End	548
GI	5509260	Score	487
Exons	157..546, 165..548, 166..546		
GI Descrip.	-		
Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
Gene No.	78082	Strand	+
Start	62	End	780
Name	OJ991029_14.0229.C10.ol.tw	Method	TBLASTX:Wheat
Start	186	End	534
GI	none	Score	100
Exons	186..518, 187..534, 189..521		
Seq. No.	37997	Seq. ID	OJ991029_14.0229.C10
Gene No.	78082	Strand	+
Start	62	End	780
Name	OJ991029_14.0229.C10.ol.tm	Method	TBLASTX:Maize
Start	208	End	675
GI	none	Score	651
Exons	208..675, 210..674		
Seq. No.	37998	Seq. ID	OJ991029_14.0229.C11
Gene No.	78083	Strand	-
Start	81	End	536
Name	OJ991029_14.0229.C11.ol.gs	Method	GENSCAN
Start	81	End	536
GI	none	Score	.86
Exons	81..536		
Seq. No.	37999	Seq. ID	OJ991029_14.0229.C12
Gene No.	78084	Strand	+
Start	495	End	953
Name	OJ991029_14.0229.C12.ol.gs	Method	GENSCAN
Start	495	End	953
GI	none	Score	.98
Exons	495..953		
Seq. No.	38000	Seq. ID	OJ991029_14.0229.C14
Gene No.	78085	Strand	+
Start	1	End	203
Name	OJ991029_14.0229.C14.ol.gp	Method	AAT/GAP
Start	1	End	203
GI	15861_1.R1084	Score	248
Exons	1..203		
GI Descrip.	'3738309 2.0e-72 (AC005309) unknown protein [Arabidopsis thaliana]'		

Seq. No.	38000	Seq. ID	OJ991029_14.0229.C14
Gene No.	78086	Strand	-
Start	1	End	235
Name	OJ991029_14.0229.C14.o1.np	Method	AAT/NAP
Start	1	End	235
GI	3738309	Score	92
Exons	1..235		
GI Descrip.	(AC005309) unknown protein [Arabidopsis thaliana]		

Seq. No.	38000	Seq. ID	OJ991029_14.0229.C14
Gene No.	78087	Strand	-
Start	1586	End	2986
Name	OJ991029_14.0229.C14.o1.tm	Method	TBLASTX:Maize
Start	29	End	213
GI	none	Score	72
Exons	29..82, 29..82, 77..118, 87..113, 112..213, 113..208		

Seq. No.	38000	Seq. ID	OJ991029_14.0229.C14
Gene No.	78087	Strand	-
Start	1586	End	2986
Name	OJ991029_14.0229.C14.o1.tw	Method	TBLASTX:Wheat
Start	32	End	213
GI	none	Score	82
Exons	32..97, 32..82, 103..213, 104..208		

Seq. No.	38000	Seq. ID	OJ991029_14.0229.C14
Gene No.	78087	Strand	-
Start	1586	End	2986
Name	OJ991029_14.0229.C14.o2.np	Method	AAT/NAP
Start	1586	End	2986
GI	6907086	Score	755
Exons	1586..1702, 1756..2010, 2037..2085, 2306..2552, 2613..2986		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38001	Seq. ID	OJ991029_14.0229.C15
Gene No.	78088	Strand	+
Start	465	End	954
Name	OJ991029_14.0229.C15.o1.gs	Method	GENSCAN
Start	465	End	954
GI	none	Score	.91
Exons	465..474, 881..954		

Seq. No.	38001	Seq. ID	OJ991029_14.0229.C15
Gene No.	78089	Strand	-
Start	1	End	401
Name	OJ991029_14.0229.C15.o1.np	Method	AAT/NAP
Start	1	End	401
GI	6907088	Score	326
Exons	1..88, 264..401		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38001	Seq. ID	OJ991029_14.0229.C15
Gene No.	78090	Strand	-
Start	1179	End	2325
Name	OJ991029_14.0229.C15.o2.gs	Method	GENSCAN
Start	1179	End	2325

GI	none	Score	.98
Exons	1179..1283, 1656..1725, 1937..2325		
Seq. No.	38002	Seq. ID	OJ991029_14.0229.C16
Gene No.	78091	Strand	-
Start	1319	End	1383
Name	OJ991029_14.0229.C16.o1.gs	Method	GENSCAN
Start	1319	End	1383
GI	none	Score	.66
Exons	1319..1383		

Seq. No.	38003	Seq. ID	OJ991029_14.0229.C17
Gene No.	78092	Strand	+
Start	1	End	406
Name	OJ991029_14.0229.C17.o1.np	Method	AAT/NAP
Start	1	End	406
GI	5902381	Score	50
Exons	1..19, 253..406		
GI Descrip.	(AC009322) Similar to DNAJ proteins [Arabidopsis thaliana]		

Seq. No.	38003	Seq. ID	OJ991029_14.0229.C17
Gene No.	78093	Strand	+
Start	1105	End	4817
Name	OJ991029_14.0229.C17.o1.gs	Method	GENSCAN
Start	1105	End	4697
GI	none	Score	.87
Exons	1105..1404, 1413..1536, 1956..2169, 3218..3643, 3803..4697		

Seq. No.	38003	Seq. ID	OJ991029_14.0229.C17
Gene No.	78093	Strand	+
Start	1105	End	4817
Name	OJ991029_14.0229.C17.o2.np	Method	AAT/NAP
Start	1105	End	4817
GI	5732053	Score	1465
Exons	1105..1545, 1956..2145, 2625..2743, 3266..3643, 3803..4361, 4416..4817		
GI Descrip.	(AF149414) contains similarity to Pfam family PF00145 (C-5 cytosine-specific DNA methylase); score=10.4. E=0.051, N=1 [Arabidopsis thaliana]		

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78094	Strand	+
Start	655	End	959
Name	OJ991029_14.0229.C18.o1.gs	Method	GENSCAN
Start	655	End	959
GI	none	Score	.88
Exons	655..761, 859..959		

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78094	Strand	+
Start	655	End	959
Name	OJ991029_14.0229.C18.o1.np	Method	AAT/NAP
Start	655	End	797
GI	5732053	Score	72
Exons	655..797		
GI Descrip.	(AF149414) contains similarity to Pfam family PF00145 (C-5 cytosine-specific DNA methylase); score=10.4. E=0.051, N=1		

[Arabidopsis thaliana]

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o2.tm	Method	TBLASTX:Maize
Start	722	End	967
GI	none	Score	51
Exons	722..763, 725..763, 857..964, 858..965, 860..967		

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o1.gp	Method	AAT/GAP
Start	1389	End	2935
GI	237_1.R1084	Score	1689
Exons	1389..1717, 1806..1905, 2133..2260, 2348..2515, 2586..2698, 2783..2935		

GI Descrip. '1705734/sp|P53683|CDP2 ORYSA 0.0e+00 CALCIUM-DEPENDENT PROTEIN KINASE, ISOFORM 2 (CDPK 2) >gi\_1362176\_pir\_S56652 probable calcium-dependent protein kinase (clone OSCPK2) - rice >gi\_587498\_emb\_CAA57157\_ (X81394) calcium-dependent protein kinase [Oryza sativa]

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o1.tm	Method	TBLASTX:Maize
Start	1396	End	2946
GI	none	Score	53
Exons	1396..1443, 1468..1515, 1474..1515, 1499..1555, 1608..1682, 1613..1648, 1659..1715, 1685..1717, 1686..1718, 1806..1910, 1806..1904, 1813..1908, 2220..2261, 2222..2260, 2346..2516, 2348..2533, 2349..2516, 2417..2476, 2580..2678, 2580..2678, 2581..2679, 2581..2685, 2676..2726, 2778..2936, 2781..2936, 2785..2943, 2785..2946		

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o2.gs	Method	GENSCAN
Start	1640	End	2935
GI	none	Score	87
Exons	1640..1717, 1806..1928, 2348..2515, 2586..2737, 2783..2935		

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o2.np	Method	AAT/NAP
Start	1643	End	2935
GI	1705734	Score	922
Exons	1643..1717, 1806..1905, 2133..2260, 2348..2515, 2586..2698, 2783..2935		

GI Descrip. CALCIUM-DEPENDENT PROTEIN KINASE, ISOFORM 2 (CDPK 2) gi|1362176|pir||S56652 probable calcium-dependent protein kinase (clone OSCPK2) - rice gi|587498|emb|CAA57157| (X81394) calcium-dependent protein kinase [Oryza sativa]



Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o1.tc	Method	TBLASTX:Cress
Start	1685	End	2946
GI	none	Score	47
Exons	1685..1717, 1686..1718, 1800..1910, 1806..1904, 2220..2261, 2222..2260, 2346..2474, 2347..2499, 2348..2503, 2348..2533, 2349..2516, 2580..2678, 2581..2679, 2600..2683, 2639..2683, 2677..2697, 2778..2933, 2781..2936, 2785..2943, 2800..2946		

Seq. No.	38004	Seq. ID	OJ991029_14.0229.C18
Gene No.	78095	Strand	-
Start	1389	End	2946
Name	OJ991029_14.0229.C18.o1.ts	Method	TBLASTX:Soybean
Start	1685	End	2931
GI	none	Score	47
Exons	1685..1717, 1686..1718, 1688..1720, 1805..1906, 1806..1910, 1806..1904, 1813..1908, 2220..2261, 2222..2260, 2346..2516, 2347..2376, 2347..2517, 2348..2533, 2349..2516, 2417..2476, 2422..2517, 2580..2678, 2580..2678, 2581..2679, 2594..2683, 2676..2726, 2778..2930, 2781..2930, 2785..2931		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78096	Strand	+
Start	5464	End	14736
Name	OJ991029_14.0229.C19.o2.gs	Method	GENSCAN
Start	5464	End	14179
GI	none	Score	.42
Exons	5464..5649, 7294..7390, 7407..7505, 8561..9009, 9452..9553, 9675..9862, 9886..10108, 10162..11175, 11386..11635, 11671..11827, 11980..12044, 12050..12215, 12411..12568, 12696..14179		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78096	Strand	+
Start	5464	End	14736
Name	OJ991029_14.0229.C19.o3.np	Method	AAT/NAP
Start	11098	End	14736
GI	6069646	Score	482
Exons	11098..11127, 13897..14736		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase (AC006248) [Oryza sativa]		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.o1.gp	Method	AAT/GAP
Start	1	End	2794
GI	237_1.R1084	Score	1930
Exons	1..132, 1617..2400, 2692..2794		
GI Descrip.	'1705734/sp P53683 CDP2_ORYSA 0.0e+00 CALCIUM-DEPENDENT PROTEIN KINASE, ISOFORM 2 (CDPK_2) >gi_1362176_pir_S56652 probable		

calcium-dependent protein kinase (clone OSCPK2) - rice  
>gi\_587498\_emb\_CAA57157\_ (X81394) calcium-dependent protein  
kinase [Oryza sativa]'

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.ol.np	Method	AAT/NAP
Start	1	End	2334
GI	1705734	Score	1422
Exons	1..132, 1617..2334		
GI Descrip.	CALCIUM-DEPENDENT PROTEIN KINASE, ISOFORM 2 (CDPK 2) gi 1362176 pir  S56652 probable calcium-dependent protein kinase (clone OSCPK2) - rice gi 587498 emb CAA57157  (X81394) calcium-dependent protein kinase [Oryza sativa]		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.ol.ts	Method	TBLASTX:Soybean
Start	17	End	2262
GI	none	Score	136
Exons	17..133, 18..134, 21..134, 1607..2125, 1609..2124, 2027..2125, 2200..2262, 2203..2256		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.ol.tm	Method	TBLASTX:Maize
Start	17	End	2398
GI	none	Score	162
Exons	17..133, 17..133, 18..134, 18..134, 18..134, 1598..1711, 1606..1713, 1608..1727, 1609..1710, 1616..1726, 1637..2125, 1639..2124, 1640..2179, 2144..2197, 2145..2210, 2170..2307, 2209..2337, 2209..2337, 2211..2339, 2240..2338, 2323..2370, 2339..2398		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.ol.tc	Method	TBLASTX:Cress
Start	17	End	2124
GI	none	Score	127
Exons	17..133, 18..134, 1598..2119, 1609..2124		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.ol.gs	Method	GENSCAN
Start	1617	End	2334
GI	none	Score	.94
Exons	1617..2334		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78097	Strand	-
Start	1	End	11077
Name	OJ991029_14.0229.C19.ol.tw	Method	TBLASTX:Wheat

Start	1666	End	11077
GI	none	Score	185
Exons	1666..1956, 1670..1930, 1690..1953, 10997..11077		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78098	Strand	
Start	12979	End	13392
Name	OJ991029_14.0229.C19.o4.tm	Method	TBLASTX:Maize
Start	12979	End	13249
GI	none	Score	133
Exons	12979..13125, 13004..13141, 13145..13249, 13171..13218		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78098	Strand	
Start	12979	End	13392
Name	OJ991029_14.0229.C19.o2.tw	Method	TBLASTX:Wheat
Start	13072	End	13392
GI	none	Score	212
Exons	13072..13392, 13079..13375		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78099	Strand	
Start	13451	End	13885
Name	OJ991029_14.0229.C19.o3.tm	Method	TBLASTX:Maize
Start	13451	End	13885
GI	none	Score	371
Exons	13451..13885, 13606..13689, 13718..13780		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78100	Strand	
Start	13970	End	14476
Name	OJ991029_14.0229.C19.o3.tw	Method	TBLASTX:Wheat
Start	13970	End	14305
GI	none	Score	84
Exons	13970..14110, 14123..14305		

Seq. No.	38005	Seq. ID	OJ991029_14.0229.C19
Gene No.	78100	Strand	
Start	13970	End	14476
Name	OJ991029_14.0229.C19.o2.tm	Method	TBLASTX:Maize
Start	14051	End	14476
GI	none	Score	437
Exons	14051..14473, 14060..14476, 14230..14475		

Seq. No.	38006	Seq. ID	OJ991029_14.0229.C20
Gene No.	78101	Strand	+
Start	1	End	987
Name	OJ991029_14.0229.C20.o1.np	Method	AAT/NAP
Start	1	End	987
GI	6069646	Score	376
Exons	1..987		

GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	38006	Seq. ID	OJ991029_14.0229.C20
Gene No.	78101	Strand	+
Start	1	End	987
Name	OJ991029_14.0229.C20.o2.tm	Method	TBLASTX:Maize
Start	4	End	298
GI	none	Score	179
Exons	4..183, 5..184, 188..298		

Seq. No.	38006	Seq. ID	OJ991029_14.0229.C20
Gene No.	78101	Strand	+
Start	1	End	987
Name	OJ991029_14.0229.C20.o1.tm	Method	TBLASTX:Maize
Start	404	End	972
GI	none	Score	180
Exons	404..610, 521..610, 607..702, 796..909, 925..972		

Seq. No.	38007	Seq. ID	OJ991029_14.0229.C21
Gene No.	78102	Strand	+
Start	434	End	639
Name	OJ991029_14.0229.C21.o1.gs	Method	GENSCAN
Start	434	End	639
GI	none	Score	.49
Exons	434...514, 519..639		

Seq. No.	38008	Seq. ID	OJ991029_14.0229.C22
Gene No.	78103	Strand	+
Start	369	End	675
Name	OJ991029_14.0229.C22.o1.gs	Method	GENSCAN
Start	369	End	675
GI	none	Score	.92
Exons	369..457, 669..675		

Seq. No.	38008	Seq. ID	OJ991029_14.0229.C22
Gene No.	78104	Strand	-
Start	228	End	325
Name	OJ991029_14.0229.C22.o1.np	Method	AAT/NAP
Start	228	End	325
GI	5852084	Score	78
Exons	228..325		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	38009	Seq. ID	OJ991029_14.0229.C23
Gene No.	78105	Strand	+
Start	1	End	607
Name	OJ991029_14.0229.C23.o1.np	Method	AAT/NAP
Start	1	End	607
GI	6498441	Score	694
Exons	1..607		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	38009	Seq. ID	OJ991029_14.0229.C23
Gene No.	78105	Strand	+
Start	1	End	607
Name	OJ991029_14.0229.C23.o1.tw	Method	TBLASTX:Wheat
Start	326	End	604

GI	none	Score	252
Exons	326..604, 340..603		
Seq. No.	38010	Seq. ID	OJ991029_14.0229.C24
Gene No.	78106	Strand	
Start	13	End	212
Name	OJ991029_14.0229.C24.o1.tw	Method	TBLASTX:Wheat
Start	13	End	209
GI	none	Score	184
Exons	13..201, 17..208, 18..209		

Seq. No.	38010	Seq. ID	OJ991029_14.0229.C24
Gene No.	78106	Strand	
Start	13	End	212
Name	OJ991029_14.0229.C24.o1.tm	Method	TBLASTX:Maize
Start	17	End	212
GI	none	Score	209
Exons	17..187, 17..184, 28..195, 45..212		

Seq. No.	38011	Seq. ID	OJ991029_14.0229.C25
Gene No.	78107	Strand	-
Start	80	End	1895
Name	OJ991029_14.0229.C25.o1.gs	Method	GENSCAN
Start	80	End	1895
GI	none	Score	.57
Exons	80..228, 1851..1895		

Seq. No.	38011	Seq. ID	OJ991029_14.0229.C25
Gene No.	78108	Strand	-
Start	4318	End	9864
Name	OJ991029_14.0229.C25.o1.tw	Method	TBLASTX:Wheat
Start	177	End	429
GI	none	Score	238
Exons	177..404, 181..429, 181..402		

Seq. No.	38011	Seq. ID	OJ991029_14.0229.C25
Gene No.	78108	Strand	-
Start	4318	End	9864
Name	OJ991029_14.0229.C25.o1.tm	Method	TBLASTX:Maize
Start	196	End	2222
GI	none	Score	199
Exons	196..390, 199..387, 212..394, 216..410, 216..389, 1845..1919, 1845..1910, 2009..2029, 2009..2029, 2125..2154, 2144..2221, 2146..2214, 2148..2222, 2148..2222		

Seq. No.	38011	Seq. ID	OJ991029_14.0229.C25
Gene No.	78108	Strand	-
Start	4318	End	9864
Name	OJ991029_14.0229.C25.o2.gs	Method	GENSCAN
Start	4318	End	9864
GI	none	Score	.57
Exons	4318..4376, 5111..5154, 5806..5984, 6438..6935, 7584..7658, 7728..7922, 8543..8633, 8909..9044, 9648..9864		

Seq. No.	38011	Seq. ID	OJ991029_14.0229.C25
Gene No.	78108	Strand	-
Start	4318	End	9864

Name	OJ991029_14.0229.C25.o1.np	Method	AAT/NAP
Start	6540	End	9318
GI	1708618	Score	41
Exons	6540..6725, 9173..9318		
GI Descrip.	NUCLEAR FACTOR NF-KAPPA-B P100 SUBUNIT [CONTAINS: NUCLEAR FACTOR NF-KAPPA-B P52 SUBUNIT] gi 407031 (U00111) NF-kB p52/p100 [Gallus gallus] gi 738738 prf  2001399A NF-kappa B p100 protein [Gallus gallus]		

Seq. No.	38011	Seq. ID	OJ991029_14.0229.C25
Gene No.	78108	Strand	-
Start	4318	End	9864
Name	OJ991029_14.0229.C25.o2.np	Method	AAT/NAP
Start	6571	End	9017
GI	6063557	Score	161
Exons	6571..6694, 8866..9017		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	38012	Seq. ID	OJ991029_14.0229.C26
Gene No.	78109	Strand	+
Start	344	End	859
Name	OJ991029_14.0229.C26.o1.np	Method	AAT/NAP
Start	344	End	859
GI	6907106	Score	338
Exons	344..558, 624..859		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38012	Seq. ID	OJ991029_14.0229.C26
Gene No.	78110	Strand	-
Start	272	End	2344
Name	OJ991029_14.0229.C26.o1.gs	Method	GENSCAN
Start	272	End	2344
GI	none	Score	.52
Exons	272..376, 475..876, 1007..1171, 2220..2344		

Seq. No.	38013	Seq. ID	OJ991029_14.0229.C29
Gene No.	78111	Strand	+
Start	309	End	544
Name	OJ991029_14.0229.C29.o1.gs	Method	GENSCAN
Start	309	End	544
GI	none	Score	.47
Exons	309..544		

Seq. No.	38014	Seq. ID	OJ991029_14.0229.C33
Gene No.	78112	Strand	+
Start	68	End	2757
Name	OJ991029_14.0229.C33.o1.gs	Method	GENSCAN
Start	68	End	2757
GI	none	Score	.85
Exons	68..172, 1078..1167, 1243..1444, 1526..1612, 1697..1741, 2439..2613, 2708..2757		

Seq. No.	38014	Seq. ID	OJ991029_14.0229.C33
Gene No.	78112	Strand	+
Start	68	End	2757
Name	OJ991029_14.0229.C33.o1.gp	Method	AAT/GAP

Start	1089	End	1575
GI	700853	Score	536
Exons	1089..1167, 1243..1445, 1526..1575		

Seq. No.	38014	Seq. ID	OJ991029_14.0229.C33
Gene No.	78112	Strand	+
Start	68	End	2757
Name	OJ991029_14.0229.C33.o1.ts	Method	TBLASTX:Soybean
Start	1339	End	1807
GI	none	Score	105
Exons	1339..1446, 1379..1447, 1511..1609, 1528..1617, 1529..1618, 1694..1801, 1697..1807, 1699..1806		

Seq. No.	38014	Seq. ID	OJ991029_14.0229.C33
Gene No.	78112	Strand	+
Start	68	End	2757
Name	OJ991029_14.0229.C33.o1.tc	Method	TBLASTX:Cress
Start	1358	End	1992
GI	none	Score	109
Exons	1358..1447, 1360..1446, 1528..1617, 1532..1618, 1690..1827, 1697..1828, 1954..1992, 1957..1977		

Seq. No.	38014	Seq. ID	OJ991029_14.0229.C33
Gene No.	78112	Strand	+
Start	68	End	2757
Name	OJ991029_14.0229.C33.o2.tc	Method	TBLASTX:Cress
Start	1995	End	2663
GI	none	Score	77
Exons	1995..2051, 1996..2061, 2263..2343, 2265..2345, 2266..2349, 2438..2626, 2439..2639, 2646..2663		

Seq. No.	38015	Seq. ID	OJ991029_14.0229.C34
Gene No.	78113	Strand	+
Start	1	End	2915
Name	OJ991029_14.0229.C34.o1.gp	Method	AAT/GAP
Start	1	End	497
GI	87330_1.R1084	Score	737
Exons	1..104, 214..497		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-177 Oryz indica(GLA4) genomic DNA, chromosome 4, BAC clone 304'		

Seq. No.	38015	Seq. ID	OJ991029_14.0229.C34
Gene No.	78113	Strand	+
Start	1	End	2915
Name	OJ991029_14.0229.C34.o1.gs	Method	TBLASTX:Cress
Start	21	End	2915
GI	none	Score	93
Exons	21..104, 2399..2485, 2660, 21, 2819..2915		

Seq. No.	38015	Seq. ID	OJ991029_14.0229.C34
Gene No.	78113	Strand	+
Start	1	End	2915
Name	OJ991029_14.0229.C34.o1.tc	Method	TBLASTX:Cress
Start	2226	End	2855
GI	none	Score	93
Exons	2226..2312, 2228..2311, 2396..2482, 2416..2475, 2591..2722, 2622..2699, 2787..2855		

Seq. No.	38015	Seq. ID	OJ991029_14.0229.C34
Gene No.	78113	Strand	+
Start	1	End	2915
Name	OJ991029_14.0229.C34.ol.ts	Method	TBLASTX:Soybean
Start	2238	End	2704
GI	none	Score	97
Exons	2238..2312, 2243..2311, 2391..2477, 2396..2482, 2396..2539, 2591..2704, 2591..2698		

Seq. No.	38015	Seq. ID	OJ991029_14.0229.C34
Gene No.	78114	Strand	
Start	2853	End	3111
Name	OJ991029_14.0229.C34.ol.tm	Method	TBLASTX:Maize
Start	2853	End	3111
GI	none	Score	103
Exons	2853..2915, 2855..2914, 3019..3111, 3019..3099, 3020..3103		

Seq. No.	38016	Seq. ID	OJ991029_14.0229.C35
Gene No.	78115	Strand	+
Start	1248	End	2255
Name	OJ991029_14.0229.C35.ol.np	Method	AAT/NAP
Start	1248	End	2227
GI	4336436	Score	536
Exons	1248..1308, 1459..2227		
GI Descrip.	(AF092432) protein phosphatase type 2C [Lotus japonicus]		

Seq. No.	38016	Seq. ID	OJ991029_14.0229.C35
Gene No.	78115	Strand	+
Start	1248	End	2255
Name	OJ991029_14.0229.C35.ol.gs	Method	GENSCAN
Start	1415	End	2255
GI	none	Score	.7
Exons	1415..1585, 1728..2255		

Seq. No.	38016	Seq. ID	OJ991029_14.0229.C35
Gene No.	78115	Strand	+
Start	1248	End	2255
Name	OJ991029_14.0229.C35.ol.tm	Method	TBLASTX:Maize
Start	1487	End	2224
GI	none	Score	101
Exons	1487..1564, 1489..1554, 1589..1624, 1593..1619, 1634..1696, 1746..2024, 1793..1828, 1904..2014, 2065..2124, 2070..2123, 2138..2224		

Seq. No.	38016	Seq. ID	OJ991029_14.0229.C35
Gene No.	78115	Strand	+
Start	1248	End	2255
Name	OJ991029_14.0229.C35.ol.tc	Method	TBLASTX:Cress.
Start	1490	End	2230
GI	none	Score	73
Exons	1490..1573, 1593..1619, 1631..1702, 1746..1820, 1763..1819, 1839..2036, 1901..2014, 2053..2124, 2076..2123, 2138..2230		

Seq. No.	38016	Seq. ID	OJ991029_14.0229.C35
Gene No.	78115	Strand	+
Start	1248	End	2255



Name	OJ991029_14.0229.C35.o1.ts	Method	TBLASTX:Soybean
Start	1490	End	2233
GI	none	Score	87
Exons	1490..1576, 1593..1619, 1634..1705, 1746..1820, 1763..1819, 1838..2023, 1839..2030, 2065..2124, 2079..2123, 2138..2233		

Seq. No.	38016	Seq. ID	OJ991029_14.0229.C35
Gene No.	78115	Strand	+
Start	1248	End	2255
Name	OJ991029_14.0229.C35.o1.tw	Method	TBLASTX:Wheat
Start	1746	End	2036
GI	none	Score	97
Exons	1746..1820, 1763..1819, 1830..2036, 1838..2020		

Seq. No.	38017	Seq. ID	OJ991029_14.0229.C36
Gene No.	78116	Strand	-
Start	1238	End	1751
Name	OJ991029_14.0229.C36.o1.gs	Method	GENSCAN
Start	1238	End	1751
GI	none	Score	.96
Exons	1238..1751		

Seq. No.	38018	Seq. ID	OJ991029_14.0229.C37
Gene No.	78117	Strand	+
Start	1	End	1517
Name	OJ991029_14.0229.C37.o1.np	Method	AAT/NAP
Start	1	End	1342
GI	6680277	Score	195
Exons	1..91, 158..265, 382..426, 863..936, 1020..1069, 1232..1342		
GI Descrip.	heat-responsive protein 12 gi 1708292 sp P52760 HR12_MOUSE HEAT-RESPONSIVE PROTEIN 12 gi 1255116 (U50631) heat-responsive protein [Mus musculus]		

Seq. No.	38018	Seq. ID	OJ991029_14.0229.C37
Gene No.	78117	Strand	+
Start	1	End	1517
Name	OJ991029_14.0229.C37.o1.gs	Method	GENSCAN
Start	150	End	1326
GI	none	Score	.94
Exons	150..265, 382..426, 768..862, 1020..1069, 1232..1326		

Seq. No.	38018	Seq. ID	OJ991029_14.0229.C37
Gene No.	78117	Strand	+
Start	1	End	1517
Name	OJ991029_14.0229.C37.o1.gp	Method	AA1/GAP
Start	872	End	1517
GI	38227.1.R1084	Score	.702
Exons	872..936, 1020..1069, 1232..1517		
GI Descrip.	'1353163/sp Q10121 YSD2_CAEEL 9.0e-09 HYPOTHETICAL 19.6 KD PROTEIN C23G10.2 IN CHROMOSOME III PRECURSOR >gi_1055071 (U39851) C23G10.2 gene product [Caenorhabditis elegans]'		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78118	Strand	+
Start	802	End	4073
Name	OJ991029_14.0229.C39.o1.gs	Method	GENSCAN
Start	802	End	4073

GI	none	Score	.86
Exons	802..1338, 1356..1910, 1960..2069, 2168..4073		
Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78118	Strand	+
Start	802	End	4073
Name	OJ991029_14.0229.C39.o1.np	Method	AAT/NAP
Start	802	End	4070
GI	5803259	Score	4661
Exons	802..2069, 2168..4070		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o2.gs	Method	GENSCAN
Start	4715	End	6370
GI	none	Score	.99
Exons	4715..6370		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o2.np	Method	AAT/NAP
Start	4718	End	6388
GI	6498441	Score	2644
Exons	4718..4999, 5093..6388		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o2.tm	Method	TBLASTX:Maize
Start	4718	End	4858
GI	none	Score	121
Exons	4718..4858, 4719..4853		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o2.tw	Method	TBLASTX:Wheat
Start	4727	End	5329
GI	none	Score	75
Exons	4727..4852, 4731..4853, 5019..5189, 5045..5329, 5046..5324, 5048..5329		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o1.tw	Method	TBLASTX:Wheat
Start	5330	End	5711
GI	none	Score	172
Exons	5330..5710, 5361..5609, 5369..5707, 5655..5711		

Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
----------	-------	---------	----------------------

Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o1.tm	Method	TBLASTX:Maize
Start	5525	End	5839
GI	none	Score	187
Exons	5525..5839, 5538..5804		
Seq. No.	38019	Seq. ID	OJ991029_14.0229.C39
Gene No.	78119	Strand	-
Start	4715	End	6388
Name	OJ991029_14.0229.C39.o3.tw	Method	TBLASTX:Wheat
Start	6041	End	6364
GI	none	Score	79
Exons	6041..6364, 6177..6362		
Seq. No.	38020	Seq. ID	OJ991029_14.0229.C40
Gene No.	78120	Strand	-
Start	1	End	948
Name	OJ991029_14.0229.C40.o1.np	Method	AAT/NAP
Start	1	End	948
GI	5902445	Score	935
Exons	1..948		
GI Descrip.	(AB030283) GAG-POL precursor.[Oryza sativa]		
Seq. No.	38020	Seq. ID	OJ991029_14.0229.C40
Gene No.	78120	Strand	-
Start	1	End	948
Name	OJ991029_14.0229.C40.o1.ts	Method	TBLASTX:Soybean
Start	59	End	430
GI	none	Score	88
Exons	59..430, 270..413		
Seq. No.	38020	Seq. ID	OJ991029_14.0229.C40
Gene No.	78120	Strand	-
Start	1	End	948
Name	OJ991029_14.0229.C40.o1.tw	Method	TBLASTX:Wheat
Start	84	End	509
GI	none	Score	341
Exons	84..509, 89..508		
Seq. No.	38020	Seq. ID	OJ991029_14.0229.C40
Gene No.	78120	Strand	-
Start	1	End	948
Name	OJ991029_14.0229.C40.o1.tm	Method	TBLASTX:Maize
Start	182	End	566
GI	none	Score	214
Exons	182..565, 201..566		
Seq. No.	38020	Seq. ID	OJ991029_14.0229.C40
Gene No.	78120	Strand	-
Start	1	End	948
Name	OJ991029_14.0229.C40.o2.tm	Method	TBLASTX:Maize
Start	593	End	809
GI	none	Score	104
Exons	593..805, 593..808, 603..809		
Seq. No.	38020	Seq. ID	OJ991029_14.0229.C40

Gene No.	78120	Strand	-
Start	1	End	948
Name	OJ991029_14.0229.C40.o2.tw	Method	TBLASTX:Wheat
Start	617	End	808
GI	none	Score	139
Exons	617..808, 624..800		

Seq. No.	38021	Seq. ID	OJ991029_14.0229.C42
Gene No.	78121	Strand	+
Start	17	End	586
Name	OJ991029_14.0229.C42.o1.gs	Method	GENSCAN
Start	17	End	502
GI	none	Score	.82
Exons	17..179, 208..278, 368..502		

Seq. No.	38021	Seq. ID	OJ991029_14.0229.C42
Gene No.	78121	Strand	+
Start	17	End	586
Name	OJ991029_14.0229.C42.o1.gp	Method	AAT/GAP
Start	105	End	586
GI	none	Score	496
Exons	105..179, 279..586		

Seq. No.	38021	Seq. ID	OJ991029_14.0229.C42
Gene No.	78121	Strand	+
Start	17	End	586
Name	OJ991029_14.0229.C42.o1.tc	Method	TBLASTX:Cress
Start	362	End	511
GI	none	Score	192
Exons	362..511, 362..502		

Seq. No.	38022	Seq. ID	OJ991029_12.0225.C2
Gene No.	78122	Strand	-
Start	28	End	1015
Name	OJ991029_12.0225.C2.o1.ts	Method	TBLASTX:Soybean
Start	1	End	547
GI	none	Score	242
Exons	1..171, 3..155, 147..275, 150..284, 154..300, 157..279, 200..280, 269..475, 270..461, 277..465, 417..545, 460..546, 461..547, 461..547		

Seq. No.	38022	Seq. ID	OJ991029_12.0225.C2
Gene No.	78122	Strand	-
Start	28	End	1015
Name	OJ991029_12.0225.C2.o3.tc	Method	TBLASTX:Cress
Start	1	End	148
GI	none	Score	242
Exons	1..147, 2..148, 3..146		

Seq. No.	38022	Seq. ID	OJ991029_12.0225.C2
Gene No.	78122	Strand	-
Start	28	End	1015
Name	OJ991029_12.0225.C2.o1.gp	Method	AAT/GAP
Start	28	End	1015
GI	688_1.R1084	Score	1833
Exons	28..1015		
GI Descrip.	'226661/prf  1603356CM 6.0e-54 trnA intron ORF 109 [Oryza		

satival']

Seq. No.	38022	Seq. ID	OJ991029_12.0225.C2
Gene No.	78122	Strand	-
Start	28	End	1015
Name	OJ991029_12.0225.C2.o1.tc	Method	TBLASTX:Cress
Start	161	End	535
GI	none	Score	155
Exons	161..274, 163..273, 200..274, 270..464, 271..465, 272..475, 460..534, 461..535		

Seq. No.	38022	Seq. ID	OJ991029_12.0225.C2
Gene No.	78122	Strand	-
Start	28	End	1015
Name	OJ991029_12.0225.C2.o2.tc	Method	TBLASTX:Cress
Start	646	End	974
GI	none	Score	40
Exons	646..681, 652..681, 653..685, 657..770, 669..779, 682..780, 682..795, 695..796, 743..880, 799..879, 831..887, 839..880, 882..974, 882..974		

Seq. No.	38022	Seq. ID	OJ991029_12.0225.C2
Gene No.	78123	Strand	-
Start	942	End	1119
Name	OJ991029_12.0225.C2.o2.ts	Method	TBLASTX:Soybean
Start	942	End	1119
GI	none	Score	207
Exons	942..1115, 968..1117, 973..1119		

Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o3.ts	Method	TBLASTX:Soybean
Start	297	End	546
GI	none	Score	123
Exons	297..422, 297..422, 299..430, 308..430, 421..546, 423..545, 424..546		

Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o4.ts	Method	TBLASTX:Soybean
Start	547	End	740
GI	none	Score	201
Exons	547..738, 549..740, 549..737		

Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o1.tc	Method	TBLASTX:Cress
Start	649	End	3054
GI	none	Score	137
Exons	649..777, 649..768, 651..824, 842..1042, 845..1036, 880..1077, 1029..1247, 1034..1372, 1036..1374, 1036..1380, 1302..1382, 2349..2573, 2366..2803, 2368..2829, 2369..2827, 2829..2879, 2830..2880, 2831..2881, 2867..2929, 2880..3053, 2911..3054, 2980..3054		

Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o2.ts	Method	TBLASTX:Soybean
Start	837	End	2366
GI	none	Score	294
Exons	837..1259, 839..1381, 839..1459, 862..1455, 880..1479, 1302..1460, 1421..1474, 1554..1589, 1590..1625, 1641..1679, 1836..1919, 1842..1916, 1849..1917, 1998..2060, 2011..2079, 2013..2045, 2111..2143, 2113..2148, 2196..2258, 2197..2235, 2243..2293, 2244..2366		
Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o1.gp	Method	AAT/GAP
Start	1772	End	1974
GI	6012822	Score	333
Exons	1772..1974		
GI Descrip.	11957/emb X15901 CHOSXX 1.0e-52 Rice complete chloroplast genome		
Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o1.ts	Method	TBLASTX:Soybean
Start	2444	End	3602
GI	none	Score	402
Exons	2444..2827, 2444..2824, 2446..2826, 2805..3602, 2855..2929, 2869..3600		
Seq. No.	38023	Seq. ID	OJ991029_12.0225.C3
Gene No.	78124	Strand	-
Start	1772	End	3602
Name	OJ991029_12.0225.C3.o2.tc	Method	TBLASTX:Cress
Start	3165	End	3602
GI	none	Score	128
Exons	3165..3320, 3168..3545, 3172..3546, 3556..3600, 3558..3602		
Seq. No.	38024	Seq. ID	OJ991029_12.0225.C4
Gene No.	78125	Strand	-
Start	942	End	1716
Name	OJ991029_12.0225.C4.o1.tw	Method	TBLASTX:Wheat
Start	942	End	1428
GI	none	Score	92
Exons	942..1019, 942..1019, 943..1020, 1021..1077, 1034..1063, 1052..1132, 1057..1134, 1059..1136, 1068..1130, 1084..1149, 1094..1162, 1095..1136, 1122..1142, 1147..1197, 1147..1188, 1148..1240, 1148..1198, 1187..1426, 1194..1427, 1194..1427, 1381..1428		
Seq. No.	38024	Seq. ID	OJ991029_12.0225.C4
Gene No.	78125	Strand	-
Start	942	End	1716
Name	OJ991029_12.0225.C4.o1.ts	Method	TBLASTX:Soybean
Start	1223	End	1716
GI	none	Score	675

Exons 1223..1714, 1233..1631, 1235..1714, 1381..1716, 1594..1716

Seq. No. 38025 Seq. ID OJ991029\_12.0225.C5  
Gene No. 78126 Strand +  
Start 6575 End 7112  
Name OJ991029\_12.0225.C5.o2.gp Method AAT/GAP  
Start 6575 End 7112  
GI 2653\_1.R1084 Score 1044  
Exons 6575..7112  
GI Descrip. '11998/emb|CAA33959| 5.0e-35 (X15901) ORF85 [Oryza sativa]  
>gi\_226619\_prf\_\_1603356AR ORF 85A [Oryza sativa]'

Seq. No. 38025 Seq. ID OJ991029\_12.0225.C5  
Gene No. 78127 Strand -  
Start 5264 End 5705  
Name OJ991029\_12.0225.C5.o1.gp Method AAT/GAP  
Start 5264 End 5705  
GI uC-osflM202092b08b1 Score 827  
Exons 5264..5705  
GI Descrip. '118048/sp|P07888|CYF\_ORYSA 5.0e-65 APOCYTOCHROME F PRECURSOR  
>gi\_65615\_pir\_CFRZ plastoquinol--plastocyanin reductase (EC  
1.10.99.1) cytochrome f precursor - rice chloroplast  
>gi\_12000\_emb\_CAA33961\_ (X15901) cytochrome f [Oryza sativa]  
>gi\_226621\_prf\_\_1603356AU cytochrome f [Oryza sativa]'

Seq. No. 38025 Seq. ID OJ991029\_12.0225.C5  
Gene No. 78128 Strand -  
Start 7116 End 7935  
Name OJ991029\_12.0225.C5.o2.ts Method TBLASTX:Soybean  
Start 128 End 518  
GI none Score 330  
Exons 128..502, 133..501, 134..502, 135..518

Seq. No. 38025 Seq. ID OJ991029\_12.0225.C5  
Gene No. 78128 Strand -  
Start 7116 End 7935  
Name OJ991029\_12.0225.C5.o1.tm Method TBLASTX:Maize  
Start 134 End 975  
GI none Score 665  
Exons 134..568, 135..569, 147..587, 566..604, 573..702, 574..792,  
608..799, 609..779, 616..780, 765..974, 768..941, 769..975,  
769..975

Seq. No. 38025 Seq. ID OJ991029\_12.0225.C5  
Gene No. 78128 Strand -  
Start 7116 End 493  
Name OJ991029\_12.0225.C5.o3.tc Method TBLASTX:Cress  
Start 134 End 493  
GI none Score 356  
Exons 134..493, 135..491

Seq. No. 38025 Seq. ID OJ991029\_12.0225.C5  
Gene No. 78128 Strand -  
Start 7116 End 7935  
Name OJ991029\_12.0225.C5.o5.tc Method TBLASTX:Cress  
Start 580 End 975  
GI none Score 146

Exons 580..768, 605..769, 606..872, 759..830, 817..873, 867..974, 868..975

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o3.ts	Method	TBLASTX:Soybean
Start	648	End	984
GI	none	Score	278
Exons	648..941, 648..974, 649..975, 649..984		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o5.tw	Method	TBLASTX:Wheat
Start	735	End	975
GI	none	Score	272
Exons	735..974, 736..975		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o4.ts	Method	TBLASTX:Soybean
Start	985	End	1413
GI	none	Score	270
Exons	985..1251, 990..1250, 991..1251, 1267..1413, 1268..1390, 1273..1392		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o6.tc	Method	TBLASTX:Cress
Start	987	End	1386
GI	none	Score	235
Exons	987..1250, 990..1250, 991..1251, 991..1251, 1267..1335, 1268..1327, 1268..1336, 1330..1386, 1339..1383		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o8.tm	Method	TBLASTX:Maize
Start	1008	End	1145
GI	none	Score	212
Exons	1008..1145, 1008..1145		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o4.tc	Method	TBLASTX:Cress
Start	1448	End	2325
GI	none	Score	49
Exons	1448..1540, 1492..1548, 1618..1953, 1619..1762, 1627..1764, 1822..1953, 1850..1954, 1920..2180, 1948..2214, 1967..2188, 2202..2291, 2206..2283, 2290..2325		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-



Start	7116	End	7935
Name	OJ991029_12.0225.C5.o1.tw	Method	TBLASTX:Wheat
Start	1782	End	2401
GI	none	Score	572
Exons	1782..2201, 1783..2202, 1784..2203, 1787..2203, 2104..2364, 2196..2357, 2272..2358, 2329..2388, 2330..2401, 2352..2390		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o2.tm	Method	TBLASTX:Maize
Start	1855	End	2666
GI	none	Score	985
Exons	1855..2601, 1856..2575, 2267..2602, 2268..2633, 2269..2601, 2628..2666		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o9.tc	Method	TBLASTX:Cress
Start	2327	End	2624
GI	none	Score	176
Exons	2327..2572, 2329..2601, 2329..2601, 2517..2624		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o6.ts	Method	TBLASTX:Soybean
Start	2452	End	7556
GI	none	Score	268
Exons	2452..2586, 6205..6579, 6206..6553, 6209..6583, 6469..6573, 6600..6662, 6605..6664, 6972..7049, 6990..7049, 7071..7127, 7076..7138, 7076..7135, 7158..7376, 7161..7373, 7204..7407, 7210..7377, 7395..7556, 7411..7551, 7449..7478		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o6.tm	Method	TBLASTX:Maize
Start	2667	End	3009
GI	none	Score	71
Exons	2667..2807, 2667..2729, 2668..2706, 2670..2825, 2676..2762, 2685..2849, 2685..2849, 2686..2763, 2688..2843, 2688..2822, 2713..2757, 2715..2765, 2715..2780, 2722..2766, 2754..2786, 2770..2814, 2784..2807, 2793..2891, 2793..2891, 2832..2959, 2832..2918, 2835..2903, 2844..2900, 2844..2897, 2844..2891, 2844..2891, 2847..2894, 2853..2939, 2871..2972, 2872..2946, 2875..2976, 2875..2985, 2881..3009, 2881..2976, 2883..2981, 2884..2943, 2905..2985, 2906..2995, 2930..2977, 2935..3006, 2935..2991, 2936..3001, 2936..2977, 2961..3005		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o2.tw	Method	TBLASTX:Wheat
Start	3115	End	3451
GI	none	Score	517

Exons 3115..3450, 3149..3451

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o7.tc	Method	TBLASTX:Cress
Start	3118	End	3365
GI	none	Score	81
Exons	3118..3174, 3120..3170, 3121..3171, 3176..3304, 3177..3305, 3177..3305, 3178..3306, 3307..3363, 3308..3364, 3308..3364, 3312..3365		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o5.tm	Method	TBLASTX:Maize
Start	3404	End	3687
GI	none	Score	110
Exons	3404..3472, 3405..3470, 3406..3471, 3433..3687, 3472..3687		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o8.tc	Method	TBLASTX:Cress
Start	3404	End	3768
GI	none	Score	68
Exons	3404..3457, 3406..3456, 3492..3725, 3494..3733, 3496..3756, 3496..3768		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o4.tw	Method	TBLASTX:Wheat
Start	4560	End	4887
GI	none	Score	473
Exons	4560..4880, 4560..4880, 4561..4881, 4624..4887		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o1.ts	Method	TBLASTX:Soybean
Start	4665	End	6201
GI	none	Score	1225
Exons	4665..5648, 4666..5649, 5446..5655, 5876..6181, 5884..6201		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o1.tc	Method	TBLASTX:Cress
Start	4703	End	5971
GI	none	Score	70
Exons	4703..4756, 4707..4763, 4707..4763, 4860..5648, 4869..5669, 5446..5655, 5891..5971, 5899..5970		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935

Name	OJ991029_12.0225.C5.o6.tw	Method	TBLASTX:Wheat
Start	5006	End	5122
GI	none	Score	184
Exons	5006..5122, 5007..5120		
Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o7.tm	Method	TBLASTX:Maize
Start	5180	End	5347
GI	none	Score	284
Exons	5180..5347, 5181..5345		
Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o4.tm	Method	TBLASTX:Maize
Start	5348	End	5828
GI	none	Score	635
Exons	5348..5788, 5349..5792, 5446..5793, 5782..5826, 5790..5828, 5792..5827		
Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o3.tw	Method	TBLASTX:Wheat
Start	5454	End	5880
GI	none	Score	190
Exons	5454..5579, 5455..5574, 5465..5575, 5581..5682, 5581..5769, 5582..5794, 5583..5774, 5612..5776, 5709..5834, 5730..5849, 5779..5850, 5789..5866, 5818..5850, 5840..5878, 5844..5879, 5854..5880		
Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o10.tc	Method	TBLASTX:Cress
Start	5972	End	6189
GI	none	Score	152
Exons	5972..6187, 5974..6189		
Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o2.tc	Method	TBLASTX:Cress
Start	6209	End	7548
GI	none	Score	228
Exons	6209..6586, 6211..6582, 6228..6587, 6989..7078, 6990..7073, 7057..7125, 7059..7547, 7060..7548		
Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o3.tm	Method	TBLASTX:Maize
Start	6795	End	7393
GI	none	Score	39
Exons	6795..6827, 6803..6823, 6819..6866, 6820..6864, 6862..6885,		

6863..6886, 6972..7376, 6972..7373, 6974..7381, 7360..7392,  
7361..7393

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o3.gp	Method	AAT/GAP
Start	7116	End	7831
GI	7528_2.R1084	Score	965
Exons	7116..7638, 7776..7831		
GI Descrip.	'140291/sp P12206 YCF4 ORYSA 7.0e-68 HYPOTHETICAL 21.5 KD PROTEIN (ORF 185) >gi_82541_pir_S05116 hypothetical protein 185 - rice chloroplast >gi_11997_emb_CAA33958 (X15901) ORF185 [Oryza sativa] >gi_226618_prf_1603356AQ ORF 185 [Oryza sativa]'		

Seq. No.	38025	Seq. ID	OJ991029_12.0225.C5
Gene No.	78128	Strand	-
Start	7116	End	7935
Name	OJ991029_12.0225.C5.o5.ts	Method	TBLASTX:Soybean
Start	7649	End	7935
GI	none	Score	399
Exons	7649..7927, 7651..7935		

Seq. No.	38026	Seq. ID	OJ991029_12.0225.C6
Gene No.	78129	Strand	
Start	7	End	205
Name	OJ991029_12.0225.C6.o1.tm	Method	TBLASTX:Maize
Start	7	End	205
GI	none	Score	164
Exons	7..147, 10..147, 42..155, 115..204, 137..205		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78130	Strand	+
Start	1101	End	1473
Name	OJ991029_12.0225.C7.o1.gp	Method	AAT/GAP
Start	1101	End	1473
GI	LIB3432-056-P1-K1-B2	Score	426
Exons	1101..1155, 1254..1473		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 5.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78131	Strand	+
Start	3827	End	3907
Name	OJ991029_12.0225.C7.o2.gp	Method	AAT/GAP
Start	3827	End	3907
GI	LIB3433-025-P1-K1-C5	Score	115
Exons	3827..3907		
GI Descrip.	'3914140/sp O65091 NLT5 ORYSA 1.0e-27 NONSPECIFIC LIPID-TRANSFER PROTEIN 5 PRECURSOR (LTP 5) >gi_3172343 (AF051369) lipid transfer protein [Oryza sativa]'		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78132	Strand	+
Start	32109	End	32272
Name	OJ991029_12.0225.C7.o7.gp	Method	AAT/GAP
Start	32109	End	32272

GI	4879016	Score	237
Exons	32109..32272		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78133	Strand	+
Start	59392	End	59827
Name	OJ991029_12.0225.C7.o8.gp	Method	AAT/GAP
Start	59392	End	59827
GI	2428308	Score	663
Exons	59392..59827		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-14 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78134	Strand	+
Start	61796	End	62177
Name	OJ991029_12.0225.C7.o9.gp	Method	AAT/GAP
Start	61796	End	62177
GI	uC-osflcyp033a04b1	Score	663
Exons	61796..62177		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78135	Strand	-
Start	8953	End	9006
Name	OJ991029_12.0225.C7.o3.gp	Method	AAT/GAP
Start	8953	End	9006
GI	3759960	Score	55
Exons	8953..9006		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78136	Strand	-
Start	24074	End	24618
Name	OJ991029_12.0225.C7.o4.gp	Method	AAT/GAP
Start	24074	End	24618
GI	426981	Score	412
Exons	24074..24107, 24198..24446, 24551..24618		
GI Descrip.	3914140/sp O65091 NLT5 ORYSA.1.0e-27. NONSPECIFIC LIPID-TRANSFER PROTEIN 5 PRECURSOR (LTP 5) >gi_3172343 (AF051369) lipid transfer protein [Oryza sativa]		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78137	Strand	-
Start	27462	End	27957
Name	OJ991029_12.0225.C7.o5.gp	Method	AAT/GAP
Start	27462	End	27957
GI	none	Score	905
Exons	27462..27957		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o5.ts	Method	TBLASTX:Soybean

Start	5617	End	28253
GI	none	Score	141
Exons	5617..5805, 5636..5806, 27993..28166, 28015..28170, 28176..28253, 28189..28221		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o2.tc	Method	TBLASTX:Cress
Start	5635	End	28247
GI	none	Score	138
Exons	5635..5805, 5636..5806, 5857..5886, 27993..28166, 28012..28170, 28185..28247, 28192..28230		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o16.tw	Method	TBLASTX:Wheat
Start	10276	End	19654
GI	none	Score	152
Exons	10276..10320, 19389..19586, 19488..19595, 19592..19654, 19593..19652		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o7.tm	Method	TBLASTX:Maize
Start	10734	End	19196
GI	none	Score	259
Exons	10734..10802, 18801..19196, 18804..19055, 19041..19196		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o14.tw	Method	TBLASTX:Wheat
Start	17349	End	17645
GI	none	Score	222
Exons	17349..17645		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o8.tm	Method	TBLASTX:Maize
Start	17919	End	18800
GI	none	Score	363
Exons	17919..18383, 18080..18361, 18339..18800, 18399..18551, 18410..18754		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o15.tw	Method	TBLASTX:Wheat
Start	17985	End	18281
GI	none	Score	212
Exons	17985..18281, 18000..18245		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
----------	-------	---------	---------------------

Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o6.ts	Method	TBLASTX:Soybean
Start	18590	End	19010
GI	none	Score	37
Exons	18590..18832, 18612..18641, 18693..18836, 18825..19010		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o11.tw	Method	TBLASTX:Wheat
Start	18633	End	19184
GI	none	Score	257
Exons	18633..18995, 19086..19184		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o14.tm	Method	TBLASTX:Maize
Start	24197	End	24442
GI	none	Score	120
Exons	24197..24340, 24198..24362, 24341..24442, 24342..24428		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o7.ts	Method	TBLASTX:Soybean
Start	24197	End	24421
GI	none	Score	121
Exons	24197..24364, 24198..24344, 24338..24421, 24342..24410		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o17.tw	Method	TBLASTX:Wheat
Start	24200	End	41797
GI	none	Score	80
Exons	24200..24349, 24338..24430, 24342..24428, 41726..41797		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78138	Strand	-
Start	27982	End	41797
Name	OJ991029_12.0225.C7.o6.gp	Method	AAT/GAP
Start	27982	End	28381
GI	63565.1.R1084	Score	725

Exons 27982..28381

GI Descrip. '4490338/emb|CAB38620.1| 9.0e-13 (AL035656) putative auxin-induced protein [Arabidopsis thaliana]'

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78139	Strand	-
Start	44638	End	44976
Name	OJ991029_12.0225.C7.o9.ts	Method	TBLASTX:Soybean
Start	44638	End	44976
GI	none	Score	188
Exons	44638..44976		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o4.tw	Method	TBLASTX:Wheat
Start	45549	End	49686
GI	none	Score	80
Exons	45549..45605, 45600..45953, 45608..45910, 45609..45953, 49507..49686		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o9.tm	Method	TBLASTX:Maize
Start	45603	End	49686
GI	none	Score	283
Exons	45603..45821, 45603..45803, 45608..45820, 49507..49686		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o3.tm	Method	TBLASTX:Maize
Start	45822	End	49488
GI	none	Score	537
Exons	45822..46283, 45822..46103, 45971..46282, 49060..49488, 49202..49276, 49358..49486		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o2.ts	Method	TBLASTX:Soybean
Start	45918	End	49440
GI	none	Score	169
Exons	45918..46250, 49045..49404, 49045..49404, 49408..49440, 49409..49438		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o6.tw	Method	TBLASTX:Wheat
Start	45981	End	49332
GI	none	Score	108
Exons	45981..46259, 46251..46385, 49030..49332, 49046..49321		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o4.tm	Method	TBLASTX:Maize
Start	46431	End	48958
GI	none	Score	82
Exons	46431..46643, 48595..48957, 48604..48957, 48608..48958		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o3.tw	Method	TBLASTX:Wheat
Start	46539	End	49029
GI	none	Score	65



Exons 46539..46643, 48604..48966, 48604..49029, 48608..48997

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o9.tw	Method	TBLASTX:Wheat
Start	47072	End	47405
GI	none	Score	157
Exons	47072..47404, 47136..47405		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o2.tm	Method	TBLASTX:Maize
Start	47252	End	47851
GI	none	Score	230
Exons	47252..47692, 47268..47690, 47690..47851, 47696..47848		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o1.tw	Method	TBLASTX:Wheat
Start	47405	End	48031
GI	none	Score	253
Exons	47405..48031, 47406..47975		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o6.tm	Method	TBLASTX:Maize
Start	47900	End	48192
GI	none	Score	205
Exons	47900..48190, 47904..48191, 48040..48192		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o3.ts	Method	TBLASTX:Soybean
Start	47990	End	48247
GI	none	Score	137
Exons	47990..48247, 47991..48245		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o2.tw	Method	TBLASTX:Wheat
Start	48038	End	48577
GI	none	Score	258
Exons	48038..48376, 48039..48377, 48379..48576, 48380..48577		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o8.ts	Method	TBLASTX:Soybean
Start	48778	End	49023
GI	none	Score	66
Exons	48778..49023, 48878..49006		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78140	Strand	
Start	45549	End	49686
Name	OJ991029_12.0225.C7.o12.tw	Method	TBLASTX:Wheat
Start	49333	End	49503
GI	none	Score	167
Exons	49333..49503, 49343..49495		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78141	Strand	
Start	50010	End	50405
Name	OJ991029_12.0225.C7.o13.tw	Method	TBLASTX:Wheat
Start	50010	End	50399
GI	none	Score	63
Exons	50010..50144, 50050..50133, 50190..50399, 50191..50343		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78141	Strand	
Start	50010	End	50405
Name	OJ991029_12.0225.C7.o15.tm	Method	TBLASTX:Maize
Start	50082	End	50405
GI	none	Score	192
Exons	50082..50405		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78142	Strand	
Start	50760	End	64202
Name	OJ991029_12.0225.C7.o13.tm	Method	TBLASTX:Maize
Start	50760	End	64202
GI	none	Score	79
Exons	50760..51065, 50935..51051, 63900..64202, 63929..64003		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78142	Strand	
Start	50760	End	64202
Name	OJ991029_12.0225.C7.o10.tw	Method	TBLASTX:Wheat
Start	50946	End	64019
GI	none	Score	120
Exons	50946..51305, 50947..51306, 63660..64019, 63662..64015		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78142	Strand	
Start	50760	End	64202
Name	OJ991029_12.0225.C7.o18.tw	Method	TBLASTX:Wheat
Start	57094	End	57331
GI	none	Score	74
Exons	57094..57174, 57094..57153, 57184..57330, 57200..57331		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78143	Strand	
Start	67546	End	68531
Name	OJ991029_12.0225.C7.o1.tm	Method	TBLASTX:Maize
Start	67546	End	68049
GI	none	Score	89
Exons	67546..67608, 67548..67649, 67563..67637, 67630..67944, 67635..67943, 67757..67948, 67947..68012, 67948..68010,		

67949..68011, 67950..68012, 67998..68048, 67998..68048,  
68014..68049

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78143	Strand	
Start	67546	End	68531
Name	OJ991029_12.0225.C7.o8.tw	Method	TBLASTX:Wheat
Start	67563	End	67793
GI	none	Score	325
Exons	67563..67793, 67565..67792		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78143	Strand	
Start	67546	End	68531
Name	OJ991029_12.0225.C7.o4.ts	Method	TBLASTX:Soybean
Start	67662	End	68531
GI	none	Score	279
Exons	67662..67913, 67691..67897, 68265..68393, 68266..68391, 68267..68395, 68436..68531		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78143	Strand	
Start	67546	End	68531
Name	OJ991029_12.0225.C7.o3.tc	Method	TBLASTX:Cress
Start	67688	End	67920
GI	none	Score	237
Exons	67688..67900, 67695..67919, 67702..67920, 67704..67919		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78143	Strand	
Start	67546	End	68531
Name	OJ991029_12.0225.C7.o10.tm	Method	TBLASTX:Maize
Start	68049	End	68258
GI	none	Score	90
Exons	68049..68117, 68050..68121, 68110..68166, 68120..68185, 68121..68177, 68146..68256, 68151..68258, 68159..68257, 68160..68258		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78143	Strand	
Start	67546	End	68531
Name	OJ991029_12.0225.C7.o4.tc	Method	TBLASTX:Cress
Start	68251	End	68531
GI	none	Score	215
Exons	68251..68394, 68264..68407, 68264..68407, 68504..68530, 68505..68531, 68505..68531		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78144	Strand	
Start	68603	End	69263
Name	OJ991029_12.0225.C7.o5.tm	Method	TBLASTX:Maize
Start	68603	End	69031
GI	none	Score	95
Exons	68603..68668, 68604..68669, 68605..68670, 68654..68713, 68655..68711, 68659..68733, 68660..68764, 68739..68768, 68769..68885, 68770..68907, 68787..68909, 68865..68927, 68865..68927, 68866..68928, 68934..69029, 68936..69031,		

68936..69031

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78144	Strand	
Start	68603	End	69263
Name	OJ991029_12.0225.C7.o5.tw	Method	TBLASTX:Wheat
Start	68708	End	69263
GI	none	Score	57
Exons	68708..68767, 68739..68768, 68757..68849, 68762..68848, 68770..68850, 68770..68853, 68824..68895, 68842..68883, 68844..68933, 68844..68894, 68853..68927, 68869..68940, 68932..69057, 68934..69047, 69026..69220, 69044..69184, 69073..69195, 69144..69230, 69189..69263		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78144	Strand	
Start	68603	End	69263
Name	OJ991029_12.0225.C7.o12.tm	Method	TBLASTX:Maize
Start	69033	End	69263
GI	none	Score	181
Exons	69033..69170, 69044..69169, 69044..69172, 69174..69218, 69177..69230, 69179..69220, 69208..69258, 69210..69263		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78145	Strand	
Start	69264	End	70030
Name	OJ991029_12.0225.C7.o7.tw	Method	TBLASTX:Wheat
Start	69264	End	69637
GI	none	Score	48
Exons	69264..69296, 69281..69313, 69285..69314, 69286..69315, 69306..69362, 69316..69363, 69320..69364, 69321..69365, 69352..69378, 69357..69392, 69363..69485, 69364..69489, 69365..69490, 69488..69505, 69517..69633, 69521..69637, 69521..69637		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78145	Strand	
Start	69264	End	70030
Name	OJ991029_12.0225.C7.o1.ts	Method	TBLASTX:Soybean
Start	69515	End	70030
GI	none	Score	866
Exons	69515..70030, 69525..70028, 69529..70029		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78145	Strand	
Start	69264	End	70030
Name	OJ991029_12.0225.C7.o1.tc	Method	TBLASTX:Cress
Start	69577	End	69949
GI	none	Score	660
Exons	69577..69948, 69578..69949		

Seq. No.	38027	Seq. ID	OJ991029_12.0225.C7
Gene No.	78145	Strand	
Start	69264	End	70030
Name	OJ991029_12.0225.C7.o11.tm	Method	TBLASTX:Maize
Start	69884	End	70030
GI	none	Score	239

Exons 69884..70030, 69890..70030

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78146	Strand	+
Start	522	End	979
Name	OJ991029_12.0225.C8.o1.gp	Method	AAT/GAP
Start	522	End	979
GI	2231_2.R1084	Score	844
Exons	522..979		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-145 Rice complete chloroplast genome'		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78147	Strand	+
Start	1075	End	1964
Name	OJ991029_12.0225.C8.o2.gp	Method	AAT/GAP
Start	1075	End	1964
GI	7587_1.R1084	Score	1664
Exons	1075..1964		
GI Descrip.	'131283/sp P12158 PSBC_ORYSA 2.0e-85 PHOTOSYSTEM II 44 KD REACTION CENTER PROTEIN (P6 PROTEIN) (CP43)		

>gi\_72710\_pir\_F2RZ44\_photosystem\_II\_chlorophyll\_a-binding  
protein psbC - rice chloroplast >gi\_11965\_emb\_CAA34014\_(X15901)  
PSII 43kDa protein [Oryza sativa]'

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o3.tw	Method	TBLASTX:Wheat
Start	2	End	357
GI	none	Score	464
Exons	2..355, 2..355, 3..356, 37..357		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o2.tc	Method	TBLASTX:Cress
Start	3	End	173
GI	none	Score	238
Exons	3..173, 37..171		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o2.ts	Method	TBLASTX:Soybean
Start	3	End	147
GI	none	Score	158
Exons	3..146, 4..147, 6..146, 37..147		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o4.tm	Method	TBLASTX:Maize
Start	3	End	122
GI	none	Score	149
Exons	3..122, 37..120		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o1.ts	Method	TBLASTX:Soybean
Start	355	End	1849
GI	none	Score	1115
Exons	355..1299, 355..870, 704..871, 717..1313, 919..1812, 926..1849		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o1.tc	Method	TBLASTX:Cress
Start	375	End	1816
GI	none	Score	903
Exons	375..1211, 375..662, 379..870, 717..1313, 721..1305, 919..1815, 926..1816		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o2.tm	Method	TBLASTX:Maize
Start	416	End	867
GI	none	Score	754
Exons	416..667, 418..867, 419..865		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o2.tw	Method	TBLASTX:Wheat
Start	519	End	918
GI	none	Score	578
Exons	519..662, 520..861, 521..916, 704..865, 717..917, 721..918		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o1.tm	Method	TBLASTX:Maize
Start	903	End	1389
GI	none	Score	629
Exons	903..1310, 904..1299, 908..1387, 919..1389, 926..1387		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o1.tw	Method	TBLASTX:Wheat
Start	918	End	1551
GI	none	Score	390
Exons	918..1211, 918..1313, 919..1305, 919..1452, 926..1453, 1097..1135, 1353..1457, 1359..1472, 1372..1473, 1416..1550, 1426..1551, 1432..1551		

Seq. No.	38028	Seq. ID	OJ991029_12.0225.C8
Gene No.	78148	Strand	+
Start	2071	End	2264
Name	OJ991029_12.0225.C8.o3.tm	Method	TBLASTX:Maize
Start	1389	End	1852
GI	none	Score	668

Exons 1389..1823, 1390..1809, 1390..1824, 1391..1825, 1820..1852, 1821..1850

Seq. No. 38028 Seq. ID OJ991029\_12.0225.C8  
Gene No. 78148 Strand +  
Start 2071 End 2264  
Name OJ991029\_12.0225.C8.o4.tw Method TBLASTX:Wheat  
Start 1552 End 1916  
GI none Score 390  
Exons 1552..1809, 1554..1850, 1554..1850, 1821..1916, 1843..1914

Seq. No. 38028 Seq. ID OJ991029\_12.0225.C8  
Gene No. 78148 Strand +  
Start 2071 End 2264  
Name OJ991029\_12.0225.C8.o3.gp Method AAT/GAP  
Start 2071 End 2264  
GI 5607533 Score 357  
Exons 2071..2264  
GI Descrip. 11957/emb|X15901|CHOSXX 1.0e-145 Rice complete chloroplast genome

Seq. No. 38029 Seq. ID OJ991029\_12.0225.C9  
Gene No. 78149 Strand -  
Start 211 End 669  
Name OJ991029\_12.0225.C9.o1.gp Method AAT/GAP  
Start 211 End 669  
GI 45273\_1.R1084 Score 846  
Exons 211..669  
GI Descrip. '1022811 4.0e-21 (U37703) ORF 62 [Hordeum vulgare]'

Seq. No. 38029 Seq. ID OJ991029\_12.0225.C9  
Gene No. 78150 Strand -  
Start 1060 End 1414  
Name OJ991029\_12.0225.C9.o1.tm Method TBLASTX:Maize  
Start 20 End 634  
GI none Score 77  
Exons 20..109, 21..68, 22..69, 80..118, 185..304, 186..305, 193..306, 225..323, 261..575, 271..576, 305..577, 307..579, 590..634, 595..633

Seq. No. 38029 Seq. ID OJ991029\_12.0225.C9  
Gene No. 78150 Strand -  
Start 1060 End 1414  
Name OJ991029\_12.0225.C9.o1.tc Method TBLASTX:Cress  
Start 21 End 549  
GI none Score 45  
Exons 21..59, 100..168, 131..163, 228..275, 228..257, 320..544, 325..549, 325..537, 326..538, 333..548

Seq. No. 38029 Seq. ID OJ991029\_12.0225.C9  
Gene No. 78150 Strand -  
Start 1060 End 1414  
Name OJ991029\_12.0225.C9.o1.ts Method TBLASTX:Soybean  
Start 226 End 549  
GI none Score 44  
Exons 226..273, 317..541, 325..549, 325..537

Seq. No.	38029	Seq. ID	OJ991029_12.0225.C9
Gene No.	78150	Strand	-
Start	1060	End	1414
Name	OJ991029_12.0225.C9.o2.tm	Method	TBLASTX:Maize
Start	1047	End	1414
GI	none	Score	44
Exons	1047..1073, 1197..1274, 1201..1356, 1202..1360, 1352..1411, 1355..1414		

Seq. No.	38029	Seq. ID	OJ991029_12.0225.C9
Gene No.	78150	Strand	-
Start	1060	End	1414
Name	OJ991029_12.0225.C9.o2.gp	Method	AAT/GAP
Start	1060	End	1249
GI	306_9.R1084	Score	242
Exons	1060..1249		
GI Descrip.	'287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene'		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78151	Strand	+
Start	2691	End	2802
Name	OJ991029_12.0225.C10.o1.gp	Method	AAT/GAP
Start	2691	End	2802
GI	1036999	Score	198
Exons	2691..2802		
GI Descrip.	11957/emb X15901 CHOSXX 2.0e-52 Rice complete chloroplast genome		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78152	Strand	+
Start	2876	End	3020
Name	OJ991029_12.0225.C10.o2.gp	Method	AAT/GAP
Start	2876	End	3020
GI	LIB3432-021-P1-K1-A3	Score	213
Exons	2876..3020		
GI Descrip.	'11957/emb X15901 CHOSXX 1.0e-52 Rice complete chloroplast genome'		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78153	Strand	+
Start	11139	End	11731
Name	OJ991029_12.0225.C10.o4.gp	Method	AAT/GAP
Start	11139	End	11731
GI	42732_1.R1084	Score	478
Exons	11139..11161, 11458..11731		
GI Descrip.	'114657/sp P12083 ATPI_ORYSA 3.0e-76 ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV) >gi_67926_pir_LWRZ6_H+-transporting ATP synthase (EC 3.6.1.34) chain a - rice chloroplast >gi_11975_emb_CAA33990_ (X15901) ATPase a subunit [Oryza sativa] >gi_226693_prf_1603356U ATPase a [Oryza sativa]'		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o11.tm	Method	TBLASTX:Maize
Start	810	End	1013
GI	none	Score	106



Exons 810..884, 811..885, 812..883, 870..1013, 878..1000, 886..1002

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o14.tc	Method	TBLASTX:Cress
Start	1868	End	2005
GI	none	Score	191
Exons	1868..2005, 1868..2005		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o9.tm	Method	TBLASTX:Maize
Start	1874	End	2146
GI	none	Score	250
Exons	1874..2038, 1874..2056, 1897..2064, 2102..2146, 2102..2140		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o12.ts	Method	TBLASTX:Soybean
Start	2636	End	2933
GI	none	Score	60
Exons	2636..2743, 2765..2794, 2805..2933, 2811..2921		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o13.tc	Method	TBLASTX:Cress
Start	2649	End	2975
GI	none	Score	41
Exons	2649..2699, 2652..2699, 2697..2768, 2765..2812, 2802..2948, 2804..2923, 2814..2975		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o2.tm	Method	TBLASTX:Maize
Start	2726	End	3266
GI	none	Score	79
Exons	2726..2767, 2727..2768, 2727..2768, 2742..2813, 2761..2808, 2798..2974, 2802..2975, 2806..2982, 2951..3067, 2953..3066, 2970..3095, 3011..3055, 3012..3056, 3013..3057, 3013..3057, 3041..3100, 3043..3102, 3055..3099, 3083..3151, 3099..3149, 3104..3151, 3143..3187, 3145..3189, 3146..3190, 3173..3262, 3179..3262, 3219..3266		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o3.tw	Method	TBLASTX:Wheat
Start	2765	End	2963
GI	none	Score	50
Exons	2765..2812, 2766..2813, 2802..2963, 2804..2923, 2814..2957		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
----------	-------	---------	----------------------

Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o2.tw	Method	TBLASTX:Wheat
Start	3011	End	3571
GI	none	Score	62
Exons	3011..3055, 3011..3055, 3013..3057, 3013..3057, 3013..3057, 3079..3099, 3095..3154, 3104..3217, 3125..3205, 3309..3404, 3314..3391, 3382..3423, 3522..3563, 3524..3571		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o11.ts	Method	TBLASTX:Soybean
Start	3643	End	3780
GI	none	Score	128
Exons	3643..3771, 3658..3780		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78154	Strand	-
Start	5081	End	5211
Name	OJ991029_12.0225.C10.o3.gp	Method	AAT/GAP
Start	5081	End	5211
GI	5607624	Score	215
Exons	5081..5211		
GI Descrip.	287391/dbj D13111 RICMT15 1.0e-178 Oryza sativa mitochondrial rpoB pseudogene		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78155	Strand	-
Start	5133	End	5790
Name	OJ991029_12.0225.C10.o7.tc	Method	TBLASTX:Cress
Start	5133	End	5705
GI	none	Score	38
Exons	5133..5168, 5138..5167, 5185..5259, 5186..5260, 5310..5582, 5318..5584, 5318..5581, 5320..5583, 5585..5701, 5586..5696, 5591..5704, 5592..5705		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78155	Strand	-
Start	5133	End	5790
Name	OJ991029_12.0225.C10.o9.ts	Method	TBLASTX:Soybean
Start	5180	End	5583
GI	none	Score	52
Exons	5180..5284, 5197..5271, 5199..5294, 5288..5581, 5290..5583		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78155	Strand	-
Start	5133	End	5790
Name	OJ991029_12.0225.C10.o3.tm	Method	TBLASTX:Maize
Start	5198	End	5596
GI	none	Score	542
Exons	5198..5596, 5200..5595		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78155	Strand	-
Start	5133	End	5790
Name	OJ991029_12.0225.C10.o7.tm	Method	TBLASTX:Maize

Start	5597	End	5790
GI	none	Score	301
Exons	5597..5782, 5597..5788, 5598..5783, 5599..5787, 5692..5790		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78156	Strand	
Start	5783	End	6656
Name	OJ991029_12.0225.C10.o9.tc	Method	TBLASTX:Cress
Start	5783	End	6058
GI	none	Score	318
Exons	5783..6058, 5785..6057, 5990..6058		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78156	Strand	
Start	5783	End	6656
Name	OJ991029_12.0225.C10.o5.ts	Method	TBLASTX:Soybean
Start	5825	End	6656
GI	none	Score	519
Exons	5825..6229, 5827..6099, 5829..6230, 6089..6235, 6230..6379, 6231..6386, 6253..6396, 6400..6654, 6412..6648, 6425..6655, 6438..6656		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78156	Strand	
Start	5783	End	6656
Name	OJ991029_12.0225.C10.o8.tc	Method	TBLASTX:Cress
Start	6059	End	6511
GI	none	Score	236
Exons	6059..6229, 6061..6099, 6063..6269, 6209..6391, 6230..6379, 6234..6392, 6235..6396, 6253..6396, 6400..6507, 6400..6507, 6425..6511, 6453..6509		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78157	Strand	
Start	6753	End	7297
Name	OJ991029_12.0225.C10.o6.ts	Method	TBLASTX:Soybean
Start	6753	End	7297
GI	none	Score	227
Exons	6753..6932, 6761..6913, 6763..6933, 6776..6943, 6895..7077, 6910..7077, 6914..7099, 7070..7108, 7119..7256, 7123..7275, 7123..7257, 7124..7297, 7130..7294		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78157	Strand	
Start	6753	End	7297
Name	OJ991029_12.0225.C10.o10.tc	Method	TBLASTX:Cress
Start	6837	End	7039
GI	none	Score	160
Exons	6837..7037, 6844..7038, 6844..7038, 6845..7039		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78158	Strand	
Start	7497	End	8302
Name	OJ991029_12.0225.C10.o8.ts	Method	TBLASTX:Soybean
Start	7497	End	7912
GI	none	Score	105
Exons	7497..7724, 7502..7726, 7504..7722, 7741..7869, 7741..7875,		

7746..7871, 7746..7889, 7751..7879, 7876..7911, 7877..7912

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78158	Strand	
Start	7497	End	8302
Name	OJ991029_12.0225.C10.o10.tm	Method	TBLASTX:Maize
Start	7690	End	8293
GI	none	Score	149
Exons	7690..7929, 7778..8032, 8102..8293		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78158	Strand	
Start	7497	End	8302
Name	OJ991029_12.0225.C10.o11.tc	Method	TBLASTX:Cress
Start	7745	End	8302
GI	none	Score	150
Exons	7745..8032, 7783..7929, 8102..8302, 8194..8301		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78159	Strand	
Start	8215	End	9031
Name	OJ991029_12.0225.C10.o2.ts	Method	TBLASTX:Soybean
Start	8215	End	9031
GI	none	Score	434
Exons	8215..8568, 8216..8548, 8557..8676, 8585..9031, 8586..9026, 8617..9030		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78159	Strand	
Start	8215	End	9031
Name	OJ991029_12.0225.C10.o5.tc	Method	TBLASTX:Cress
Start	8314	End	8714
GI	none	Score	319
Exons	8314..8427, 8315..8554, 8321..8554, 8494..8571, 8585..8713, 8585..8713, 8586..8714, 8586..8714		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78160	Strand	
Start	9009	End	9801
Name	OJ991029_12.0225.C10.o12.tc	Method	TBLASTX:Cress
Start	9009	End	9290
GI	none	Score	270
Exons	9009..9290, 9017..9235		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78160	Strand	
Start	9009	End	9801
Name	OJ991029_12.0225.C10.o10.ts	Method	TBLASTX:Soybean
Start	9116	End	9529
GI	none	Score	43
Exons	9116..9175, 9147..9176, 9177..9302, 9177..9251, 9273..9377, 9290..9529, 9299..9484, 9312..9524		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78160	Strand	
Start	9009	End	9801
Name	OJ991029_12.0225.C10.o6.tc	Method	TBLASTX:Cress

Start	9379	End	9801
GI	none	Score	52
Exons	9379..9426, 9380..9484, 9396..9572, 9435..9560, 9463..9561, 9556..9801, 9557..9799, 9559..9801		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78161	Strand	
Start	9811	End	10555
Name	OJ991029_12.0225.C10.o2.tc	Method	TBLASTX:Cress
Start	9811	End	10555
GI	none	Score	664
Exons	9811..10251, 9812..10258, 10305..10553, 10319..10555, 10321..10554		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78161	Strand	
Start	9811	End	10555
Name	OJ991029_12.0225.C10.o7.ts	Method	TBLASTX:Soybean
Start	10085	End	10527
GI	none	Score	218
Exons	10085..10252, 10101..10250, 10120..10251, 10293..10523, 10303..10440, 10310..10525, 10321..10527		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78161	Strand	
Start	9811	End	10555
Name	OJ991029_12.0225.C10.o6.tm	Method	TBLASTX:Maize
Start	10196	End	10529
GI	none	Score	82
Exons	10196..10252, 10198..10251, 10293..10529, 10303..10440, 10310..10528		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78162	Strand	
Start	10528	End	11490
Name	OJ991029_12.0225.C10.o1.ts	Method	TBLASTX:Soybean
Start	10528	End	11490
GI	none	Score	99
Exons	10528..10602, 10532..10606, 10535..10606, 10731..10778, 10735..10779, 10797..10829, 10827..11489, 10828..11187, 10829..11488, 10830..11489, 11236..11490		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78162	Strand	
Start	10528	End	11490
Name	OJ991029_12.0225.C10.o8.tm	Method	TBLASTX:Maize
Start	10531	End	11027
GI	none	Score	140
Exons	10531..10632, 10532..10636, 10532..10633, 10731..10778, 10735..10779, 10797..10829, 10827..11027, 10829..11026, 10830..11027		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78162	Strand	
Start	10528	End	11490
Name	OJ991029_12.0225.C10.o15.tc	Method	TBLASTX:Cress
Start	10567	End	10919

GI	none	Score	81
Exons	10567..10632, 10568..10624, 10740..10790, 10744..10791, 10830..10919, 10832..10918		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78162	Strand	
Start	10528	End	11490
Name	OJ991029_12.0225.C10.o4.tc	Method	TBLASTX:Cress
Start	10922	End	11316
GI	none	Score	595
Exons	10922..11314, 10923..11315, 10926..11315, 11236..11316		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o4.ts	Method	TBLASTX:Soybean
Start	11490	End	12703
GI	none	Score	149
Exons	11490..11615, 11491..11616, 11800..11841, 11847..12299, 11852..12568, 11857..12567, 11874..12572, 11881..12570, 12680..12703		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o4.tm	Method	TBLASTX:Maize
Start	12079	End	12363
GI	none	Score	452
Exons	12079..12363, 12079..12363		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o3.tc	Method	TBLASTX:Cress
Start	12083	End	12705
GI	none	Score	118
Exons	12083..12196, 12085..12198, 12193..12567, 12194..12568, 12196..12570, 12685..12705, 12687..12704		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o1.tm	Method	TBLASTX:Maize
Start	12364	End	13023
GI	none	Score	47
Exons	12364..12390, 12364..12390, 12385..12570, 12385..12567, 12386..12568, 12404..12580, 12619..12702, 12620..12712, 12642..12704, 12674..12718, 12704..12769, 12754..12816, 12816..12854, 12817..12855, 12824..12856, 12851..12970, 12852..12971, 12853..12978, 12853..12978, 12961..13023, 12963..13022		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o3.ts	Method	TBLASTX:Soybean
Start	12840	End	13708

GI	none	Score	77
Exons	12840..12947, 12900..12971, 12904..12960, 12995..13087, 12997..13707, 13005..13322, 13025..13708		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o1.tw	Method	TBLASTX:Wheat
Start	12860	End	13267
GI	none	Score	123
Exons	12860..12946, 12860..13003, 12861..12971, 12865..12987, 12928..13263, 12934..13224, 12963..13229, 12974..13267		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o1.tc	Method	TBLASTX:Cress
Start	12905	End	13708
GI	none	Score	59
Exons	12905..12961, 12906..12971, 12953..13705, 12999..13664, 13018..13707, 13025..13708		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o5.tm	Method	TBLASTX:Maize
Start	13024	End	13318
GI	none	Score	393
Exons	13024..13281, 13025..13282, 13229..13318, 13263..13310		

Seq. No.	38030	Seq. ID	OJ991029_12.0225.C10
Gene No.	78163	Strand	
Start	11490	End	13708
Name	OJ991029_12.0225.C10.o12.tm	Method	TBLASTX:Maize
Start	13506	End	13644
GI	none	Score	178
Exons	13506..13643, 13507..13644, 13507..13644		

Seq. No.	38031	Seq. ID	OJ991029_12.0225.C11
Gene No.	78164	Strand	-
Start	1	End	56
Name	OJ991029_12.0225.C11.o1.gp	Method	AAT/GAP
Start	1	End	56
GI	uC-osflcyp033a04b1	Score	108
Exons	1..56		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38032	Seq. ID	OJ991029_12.0225.C12
Gene No.	78165	Strand	+
Start	801	End	1060
Name	OJ991029_12.0225.C12.o1.gp	Method	AAT/GAP
Start	801	End	1060
GI	2315_5.R1084	Score	349
Exons	801..1060		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o10.tw	Method	TBLASTX:Wheat
Start	45	End	341
GI	none	Score	257
Exons	45..341, 47..85, 143..334		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o9.tm	Method	TBLASTX:Maize
Start	225	End	509
GI	none	Score	206
Exons	225..509, 239..403, 240..470		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o11.tw	Method	TBLASTX:Wheat
Start	717	End	1124
GI	none	Score	52
Exons	717..758, 870..1124, 872..1003		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o11.tm	Method	TBLASTX:Maize
Start	840	End	1184
GI	none	Score	185
Exons	840..1184		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o10.tm	Method	TBLASTX:Maize
Start	1316	End	1468
GI	none	Score	200
Exons	1316..1468, 1334..1462, 1378..1467		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o5.tw	Method	TBLASTX:Wheat
Start	1412	End	12875
GI	none	Score	129
Exons	1412..1573, 1516..1572, 1547..1888, 1568..1891, 12571..12732, 12587..12673, 12732..12875, 12750..12857		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o5.tm	Method	TBLASTX:Maize
Start	1586	End	12971
GI	none	Score	147
Exons	1586..1801, 12616..12732, 12732..12971, 12739..12966		



Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o6.tm	Method	TBLASTX:Maize
Start	1829	End	12588
GI	none	Score	132
Exons	1829..2212, 12205..12588, 12218..12484, 12310..12552		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o5.ts	Method	TBLASTX:Soybean
Start	1868	End	12567
GI	none	Score	423
Exons	1868..2227, 1876..2214, 4003..4128, 4008..4112, 12190..12567		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o6.tw	Method	TBLASTX:Wheat
Start	1892	End	12532
GI	none	Score	124
Exons	1892..2242, 4006..4128, 12112..12531, 12218..12478, 12272..12532		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o2.tw	Method	TBLASTX:Wheat
Start	2243	End	3968
GI	none	Score	606
Exons	2243..2671, 2245..2670, 3849..3968, 3850..3936		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o10.ts	Method	TBLASTX:Soybean
Start	2249	End	2494
GI	none	Score	221
Exons	2249..2494, 2272..2379, 2440..2493		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o4.tm	Method	TBLASTX:Maize
Start	2315	End	2668
GI	none	Score	458
Exons	2315..2668, 2335..2541, 2351..2656, 2632..2664		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o4.tw	Method	TBLASTX:Wheat
Start	2711	End	11149
GI	none	Score	111
Exons	2711..2854, 2731..2853, 2815..3210, 2838..3215, 2864..3211, 10790..10858, 10907..10981, 11075..11149		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o7.tm	Method	TBLASTX:Maize
Start	2864	End	3265
GI	none	Score	316
Exons	2864..3250, 2865..3260, 2972..3265		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o6.tc	Method	TBLASTX:Cress
Start	2913	End	3233
GI	none	Score	117
Exons	2913..3089, 3093..3233, 3098..3223		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o9.ts	Method	TBLASTX:Soybean
Start	3003	End	3263
GI	none	Score	234
Exons	3003..3263, 3005..3250		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o1.tw	Method	TBLASTX:Wheat
Start	3222	End	3848
GI	none	Score	731
Exons	3222..3848, 3281..3847		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o3.tm	Method	TBLASTX:Maize
Start	3401	End	3857
GI	none	Score	218
Exons	3401..3556, 3402..3563, 3561..3857, 3563..3853		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o8.tm	Method	TBLASTX:Maize
Start	10772	End	11233
GI	none	Score	50
Exons	10772..11233, 10803..10871, 10956..11093		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o7.tw	Method	TBLASTX:Wheat
Start	11473	End	11871
GI	none	Score	77
Exons	11473..11616, 11481..11870, 11758..11871		

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o11.ts  
 Start 11505  
 GI none  
 Exons 11505..11867

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Soybean  
 End 11867  
 Score 184

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o7.ts  
 Start 14522  
 GI none  
 Exons 14522..14617, 14524..14616, 14600..14782, 14614..14781, 14621..14782, 14622..14783

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Soybean  
 End 14783  
 Score 135

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o5.tc  
 Start 14731  
 GI none  
 Exons 14731..14961, 14732..14935

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Cress  
 End 14961  
 Score 218

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o8.ts  
 Start 15092  
 GI none  
 Exons 15092..15325, 15102..15407, 15103..15399

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Soybean  
 End 15407  
 Score 296

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o4.tc  
 Start 15101  
 GI none  
 Exons 15101..15331, 15101..15325, 15102..15398, 15103..15399

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Cress  
 End 15399  
 Score 210

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o6.ts  
 Start 15863  
 GI none  
 Exons 15863..16087, 15865..16089, 15865..16089

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Soybean  
 End 16089  
 Score 347

Seq. No. 38033  
 Gene No. 78166  
 Start 16892  
 Name OJ991029\_12.0225.C13.o3.ts  
 Start 16090  
 GI none  
 Exons 16090..16407, 16090..16407, 16094..16408, 16395..16472, 16395..16469, 16412..16471, 16425..16541, 16427..16540,

Seq. ID OJ991029\_12.0225.C13  
 Strand -  
 End 20070  
 Method TBLASTX:Soybean  
 End 16542  
 Score 444

16456..16542

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o2.tm	Method	TBLASTX:Maize
Start	16625	End	16980
GI	none	Score	548
Exons	16625..16942, 16626..16979, 16629..16979, 16672..16980		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o1.ts	Method	TBLASTX:Soybean
Start	16650	End	17379
GI	none	Score	59
Exons	16650..16955, 16658..16699, 16698..16928, 16703..16942, 16953..17261, 16954..17199, 17000..17200, 17216..17260, 17252..17374, 17254..17379, 17254..17379		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o3.tc	Method	TBLASTX:Cress
Start	16667	End	17189
GI	none	Score	47
Exons	16667..16702, 16670..16699, 16698..16928, 16702..16947, 16703..16930, 16704..16955, 16952..17074, 16953..17066, 16954..17088, 16954..17088, 17066..17092, 17082..17189, 17083..17184		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o1.gp	Method	AAT/GAP
Start	16892	End	18860
GI	183_5.R1084	Score	2729
Exons	16892..17276, 17817..18860		
GI Descrip.	'133999/sp P05424 RR7_ORYSA 1.0e-48 CHLOROPLAST 30S RIBOSOMAL PROTEIN S7 >gi_70904_pir_R3RZ7 ribosomal protein S7 - rice chloroplast >gi_12037_emb_CAA33942_ (X15901) ribosomal protein S7 [Oryza sativa] >gi_12065_emb_CAA33919_ (X15901) ribosomal protein S7 [Oryza sativa] >gi_226657_prf_1603356CH-ribosomal protein S7 [Oryza sativa]'		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o1.tm	Method	TBLASTX:Maize
Start	16981	End	18860
GI	none	Score	756
Exons	16981..17451, 16981..18393, 16982..18412, 17000..17950, 17506..18414, 17993..18460, 18327..18413, 18434..18556, 18474..18557, 18499..18558, 18526..18612, 18551..18850, 18552..18860, 18556..18858		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
----------	-------	---------	----------------------

Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o8.tw	Method	TBLASTX:Wheat
Start	17056	End	17275
GI	none	Score	99
Exons	17056..17166, 17059..17139, 17060..17143, 17123..17254, 17124..17237, 17242..17274, 17243..17275		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o7.tc	Method	TBLASTX:Cress
Start	17236	End	17396
GI	none	Score	194
Exons	17236..17391, 17247..17357, 17254..17391, 17255..17395, 17256..17396		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o4.ts	Method	TBLASTX:Soybean
Start	17381	End	17783
GI	none	Score	178
Exons	17381..17503, 17382..17504, 17516..17629, 17516..17629, 17599..17781, 17628..17783, 17630..17782		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o3.tw	Method	TBLASTX:Wheat
Start	17651	End	18060
GI	none	Score	42
Exons	17651..17710, 17702..17950, 17716..18060, 17717..18058		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o2.tc	Method	TBLASTX:Cress
Start	17670	End	18496
GI	none	Score	365
Exons	17670..17891, 17671..18141, 17671..18192, 17672..18193, 17946..18143, 17993..18148, 18143..18259, 18147..18260, 18148..18258, 18151..18267, 18152..18268, 18204..18272, 18236..18310, 18241..18342, 18274..18321, 18311..18385, 18327..18395, 18337..18381, 18367..18411, 18369..18410, 18371..18466, 18377..18412, 18380..18496		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o2.ts	Method	TBLASTX:Soybean
Start	17941	End	19053
GI	none	Score	191
Exons	17941..18138, 17941..18141, 17942..18142, 17946..18143, 17996..18148, 18125..18247, 18157..18252, 18158..18247, 18160..18258, 18274..18309, 18278..18310, 18310..18351, 18317..18352, 18340..18402, 18368..18463, 18431..18472,		

18470..18541, 18474..18539, 18534..18560, 18535..18561,  
18568..18672, 18595..18672, 18680..18772, 18699..18755,  
18886..19044, 18887..19042, 18888..19052, 18919..19053

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o8.tc	Method	TBLASTX:Cress
Start	18503	End	18699
GI	none	Score	42
Exons	18503..18544, 18515..18547, 18537..18674, 18538..18681, 18539..18670, 18540..18671, 18676..18699		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o1.tc	Method	TBLASTX:Cress
Start	18700	End	20070
GI	none	Score	110
Exons	18700..18795, 18700..18786, 18791..18817, 18793..18819, 18795..18824, 18886..19032, 18893..19024, 18927..19025, 18989..19060, 19079..19156, 19080..19160, 19081..19161, 19153..19224, 19156..19224, 19157..19225, 19180..19287, 19194..19262, 19226..19288, 19284..19415, 19304..19420, 19306..19413, 19360..19467, 19428..19472, 19486..19533, 19487..19663, 19488..19670, 19571..19672, 19573..19671, 19697..19756, 19699..19758, 19701..19772, 19710..19763, 19765..19881, 19767..19883, 19860..19967, 19879..19974, 19882..19974, 19889..19975, 19975..20001, 19981..20001, 19982..20014, 20003..20068, 20005..20070, 20005..20070		

Seq. No.	38033	Seq. ID	OJ991029_12.0225.C13
Gene No.	78166	Strand	-
Start	16892	End	20070
Name	OJ991029_12.0225.C13.o9.tw	Method	TBLASTX:Wheat
Start	19785	End	20070
GI	none	Score	76
Exons	19785..19880, 19785..19862, 19851..19922, 19860..19922, 19879..19923, 19892..19933, 19896..19982, 19918..19983, 19969..20046, 19986..20042, 19987..20043, 20045..20068, 20045..20068, 20047..20070		

Seq. No.	38034	Seq. ID	OJ991029_12.0225.C14
Gene No.	78167	Strand	-
Start	454	End	1256
Name	OJ991029_12.0225.C14.o2.tc	Method	TBLASTX:Cress
Start	1	End	245
GI	none	Score	150
Exons	1..150, 2..124, 125..214, 126..215, 128..217, 216..245		

Seq. No.	38034	Seq. ID	OJ991029_12.0225.C14
Gene No.	78167	Strand	-
Start	454	End	1256
Name	OJ991029_12.0225.C14.o1.ts	Method	TBLASTX:Soybean
Start	264	End	508
GI	none	Score	67
Exons	264..323, 264..323, 265..324, 265..324, 331..387, 333..386,		

337..387, 371..508, 377..508

Seq. No.	38034	Seq. ID	OJ991029_12.0225.C14
Gene No.	78167	Strand	-
Start	454	End	1256
Name	OJ991029_12.0225.C14.o1.gp	Method	AAT/GAP
Start	454	End	926
GI	uC-osflcyp097b05b1	Score	890
Exons	454..926		
GI Descrip.	'140503/sp P12173 YCTI_ORYSA 3.0e-39 HYPOTHETICAL 14 KD PROTEIN IN TRNI INTRON (ORF 133) >gi_82518_pir_JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast >gi_12041_emb_CAA33945_(X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_12061_emb_CAA33915_(X15901) ORF133; ORF within trnI intron [Oryza sativa] >gi_226660_prf_1603356CL trnI intron ORF 133 [Oryza'		

Seq. No.	38034	Seq. ID	OJ991029_12.0225.C14
Gene No.	78167	Strand	-
Start	454	End	1256
Name	OJ991029_12.0225.C14.o1.tm	Method	TBLASTX:Maize
Start	723	End	1233
GI	none	Score	404
Exons	723..995, 723..995, 725..1024, 953..1033, 954..1034, 970..1035, 974..1036, 1009..1233, 1041..1232, 1042..1233		

Seq. No.	38034	Seq. ID	OJ991029_12.0225.C14
Gene No.	78167	Strand	-
Start	454	End	1256
Name	OJ991029_12.0225.C14.o1.tc	Method	TBLASTX:Cress
Start	890	End	1236
GI	none	Score	130
Exons	890..976, 891..974, 969..1064, 974..1015, 1066..1137, 1067..1153, 1141..1236, 1142..1234		

Seq. No.	38034	Seq. ID	OJ991029_12.0225.C14
Gene No.	78167	Strand	-
Start	454	End	1256
Name	OJ991029_12.0225.C14.o2.ts	Method	TBLASTX:Soybean
Start	922	End	1256
GI	none	Score	46
Exons	922..966, 923..961, 924..968, 971..1006, 972..1007, 999..1037, 1084..1137, 1088..1153, 1088..1150, 1141..1236, 1143..1244, 1143..1235, 1236..1256		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78168	Strand	+
Start	1	End	13131
Name	OJ991209_15.0222.C1.o1.np	Method	AAT/NAP
Start	1	End	6087
GI	6705984	Score	1272
Exons	1..347, 822..2621, 6028..6087		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78168	Strand	+
Start	1	End	13131

Name	OJ991209_15.0222.C1.o1.gs	Method	GENSCAN
Start	508	End	3014
GI	none	Score	.72
Exons	508..961, 989..2049, 2055..3014		

  

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78168	Strand	+
Start	1	End	13131
Name	OJ991209_15.0222.C1.o2.gs	Method	GENSCAN
Start	4329	End	13131
GI	none	Score	.71
Exons	4329..4420, 4455..4766, 7397..7435, 10405..10979, 11758..12290, 12379..13131		

  

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78169	Strand	-
Start	7693	End	8126
Name	OJ991209_15.0222.C1.o1.gp	Method	AAT/GAP
Start	7693	End	8126
GI	LIB3432-059-P1-K1-D8	Score	671
Exons	7693..8126		
GI Descrip.	'5734616/dbj AP000391.1 AP000391.0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

  

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o3.tm	Method	TBLASTX:Maize
Start	883	End	1101
GI	none	Score	218
Exons	883..1101, 918..1100, 928..1101		

  

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o1.tw	Method	TBLASTX:Wheat
Start	916	End	1422
GI	none	Score	451
Exons	916..1422, 930..1400		

  

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o1.ts	Method	TBLASTX:Soybean
Start	934	End	1317
GI	none	Score	140
Exons	934..1104, 1129..1317		

  

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o2.tw	Method	TBLASTX:Wheat
Start	1819	End	2276
GI	none	Score	155
Exons	1819..2004, 1866..2006, 1995..2099, 2007..2087, 2104..2247, 2105..2272, 2106..2276		



Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o2.tm	Method	TBLASTX:Maize
Start	2055	End	2291
GI	none	Score	263
Exons	2055..2291, 2060..2182, 2085..2285		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o2.ts	Method	TBLASTX:Soybean
Start	2055	End	2291
GI	none	Score	255
Exons	2055..2291, 2060..2182, 2085..2285		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o3.tw	Method	TBLASTX:Wheat
Start	12005	End	12456
GI	none	Score	191
Exons	12005..12250, 12015..12251, 12379..12456		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o3.gs	Method	GENSCAN
Start	13807	End	14942
GI	none	Score	.94
Exons	13807..14700, 14850..14942		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o2.np	Method	AAT/NAP
Start	13813	End	17204
GI	6815097	Score	1120
Exons	13813..14578, 14719..14951, 17150..17204		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o3.ts	Method	TBLASTX:Soybean
Start	13960	End	14304
GI	none	Score	38
Exons	13960..14190, 14081..14116, 14185..14304, 14186..14302		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o1.tm	Method	TBLASTX:Maize
Start	13981	End	14304
GI	none	Score	74
Exons	13981..14136, 13981..14304, 13982..14293		

Seq. No.	38035	Seq. ID	OJ991209_15.0222.C1
Gene No.	78170	Strand	-
Start	13807	End	17204
Name	OJ991209_15.0222.C1.o2.gp	Method	AAT/GAP
Start	16447	End	17015
GI	4879016	Score	848
Exons	16447..17015		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	38036	Seq. ID	OJ991209_15.0222.C2
Gene No.	78171	Strand	+
Start	222	End	778
Name	OJ991209_15.0222.C2.o1.gs	Method	GENSCAN
Start	222	End	778
GI	none	Score	.71
Exons	222..240, 597..778		

Seq. No.	38036	Seq. ID	OJ991209_15.0222.C2
Gene No.	78172	Strand	-
Start	108	End	2965
Name	OJ991209_15.0222.C2.o1.np	Method	AAT/NAP
Start	108	End	2965
GI	4519258	Score	106
Exons	108..145, 2596..2965		
GI Descrip.	(AB017914) L-zip+NBS+LRR [Oryza sativa]		

Seq. No.	38036	Seq. ID	OJ991209_15.0222.C2
Gene No.	78172	Strand	-
Start	108	End	2965
Name	OJ991209_15.0222.C2.o2.gs	Method	GENSCAN
Start	1222	End	2719
GI	none	Score	.66
Exons	1222..1331, 1756..1915, 2359..2719		

Seq. No.	38036	Seq. ID	OJ991209_15.0222.C2
Gene No.	78172	Strand	-
Start	108	End	2965
Name	OJ991209_15.0222.C2.o1.tm	Method	TBLASTX:Maize
Start	2653	End	2959
GI	none	Score	51
Exons	2653..2709, 2654..2698, 2701..2769, 2702..2770, 2703..2786, 2742..2909, 2748..2849, 2767..2943, 2780..2929, 2909..2959		

Seq. No.	38037	Seq. ID	OJ991209_15.0222.C3
Gene No.	78173	Strand	-
Start	1	End	1601
Name	OJ991209_15.0222.C3.o1.np	Method	AAT/NAP
Start	1	End	1601
GI	2832633	Score	96
Exons	1..397, 1580..1601		
GI Descrip.	(AL021711) putative protein [Arabidopsis thaliana]		

Seq. No.	38037	Seq. ID	OJ991209_15.0222.C3
Gene No.	78173	Strand	-

Start	1	End	1601
Name	OJ991209_15.0222.C3.o1.tm	Method	TBLASTX:Maize
Start	348	End	686
GI	none	Score	170
Exons	348..479, 349..474, 476..676, 477..686, 477..674, 485..682		

Seq. No.	38037	Seq. ID	OJ991209_15.0222.C3
Gene No.	78173	Strand	-
Start	1	End	1601
Name	OJ991209_15.0222.C3.o1.gs	Method	GENSCAN
Start	499	End	1030
GI	none	Score	.48
Exons	499..710, 913..1030		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78174	Strand	+
Start	10699	End	11749
Name	OJ991209_15.0222.C4.o2.gp	Method	AAT/GAP
Start	10699	End	11749
GI	2427707	Score	874
Exons	10699..11025, 11618..11749		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78175	Strand	+
Start	11778	End	18556
Name	OJ991209_15.0222.C4.o5.np	Method	AAT/NAP
Start	11778	End	16174
GI	4689223	Score	290
Exons	11778..12813, 13462..13579, 15858..16174		
GI Descrip.	(AF118127) disease resistance protein I2 [Lycopersicon esculentum]		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78175	Strand	+
Start	11778	End	18556
Name	OJ991209_15.0222.C4.o3.gp	Method	AAT/GAP
Start	12387	End	15720
GI	uC-osflm202108g01b1	Score	882
Exons	12387..12772, 15640..15720		
GI Descrip.	'2258315 6.0e-11 (AF004878) resistance complex protein I2C-1 [Lycopersicon esculentum]'		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78175	Strand	+
Start	11778	End	18556
Name	OJ991209_15.0222.C4.o6.np	Method	AAT/NAP
Start	13251	End	18556
GI	4519258	Score	135
Exons	13251..13271, 15970..16418, 18534..18556		
GI Descrip.	(AB017914) L-zip+NBS+LRR [Oryza sativa]		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78175	Strand	+
Start	11778	End	18556
Name	OJ991209_15.0222.C4.o5.gs	Method	GENSCAN
Start	14367	End	16947
GI	none	Score	.91

Exons 14367..14441, 15640..16947

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78176	Strand	-
Start	276	End	786
Name	OJ991209_15.0222.C4.o1.gp	Method	AAT/GAP
Start	276	End	786
GI	uC-osrocyp002b09b1	Score	991
Exons	276..786		
GI Descrip.	'4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78177	Strand	-
Start	3032	End	11229
Name	OJ991209_15.0222.C4.o2.gs	Method	GENSCAN
Start	3032	End	6588
GI	none	Score	.54
Exons	3032..3519, 4349..4447, 4522..4745, 4854..5852, 6022..6253, 6504..6588		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78177	Strand	-
Start	3032	End	11229
Name	OJ991209_15.0222.C4.o4.np	Method	AAT/NAP
Start	4385	End	11229
GI	4378066	Score	692
Exons	4385..5625, 5810..6484, 11203..11229		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78177	Strand	-
Start	3032	End	11229
Name	OJ991209_15.0222.C4.o2.np	Method	AAT/NAP
Start	4385	End	10802
GI	4544372	Score	690
Exons	4385..6267, 6388..6477, 10769..10802		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78178	Strand	-
Start	13729	End	13971
Name	OJ991209_15.0222.C4.o4.gs	Method	GENSCAN
Start	13729	End	13971
GI	none	Score	.92
Exons	13729..13971		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o1.tm	Method	TBLASTX:Maize
Start	1097	End	12628
GI	none	Score	90
Exons	1097..1171, 1223..1282, 12149..12322, 12167..12361,		

12361..12627, 12362..12628

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o2.ts	Method	TBLASTX:Soybean
Start	4391	End	4624
GI	none	Score	108
Exons	4391..4624, 4494..4622		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o3.ts	Method	TBLASTX:Soybean
Start	4967	End	5362
GI	none	Score	68
Exons	4967..5362, 5067..5261		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o2.tm	Method	TBLASTX:Maize
Start	5198	End	5530
GI	none	Score	188
Exons	5198..5530		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o1.tw	Method	TBLASTX:Wheat
Start	5997	End	6431
GI	none	Score	64
Exons	5997..6287, 6214..6288, 6342..6431		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o1.ts	Method	TBLASTX:Soybean
Start	6060	End	6477
GI	none	Score	63
Exons	6060..6287, 6064..6177, 6217..6303, 6338..6475, 6339..6476, 6339..6476, 6370..6477		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o3.tm	Method	TBLASTX:Maize
Start	11899	End	12124
GI	none	Score	185
Exons	11899..12057, 11900..12124, 11900..12115		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o4.ts	Method	TBLASTX:Soybean
Start	12347	End	16383
GI	none	Score	59

Exons 12347..12472, 12513..12548, 12581..12613, 16081..16218,  
16087..16374, 16102..16383

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o2.tw	Method	TBLASTX:Wheat
Start	16078	End	16395
GI	none	Score	75
Exons	16078..16203, 16081..16395, 16081..16338, 16189..16383		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o6.gs	Method	GENSCAN
Start	18176	End	20171
GI	none	Score	.85
Exons	18176..18338, 19993..20171		

Seq. No.	38038	Seq. ID	OJ991209_15.0222.C4
Gene No.	78179	Strand	-
Start	18176	End	20171
Name	OJ991209_15.0222.C4.o4.gp	Method	AAT/GAP
Start	19143	End	19617
GI	uC-osroM202020e03b1	Score	815
Exons	19143..19463, 19494..19617		
GI Descrip.	'5852170/emb AL117265.1 OST17804 2.0e-10 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78180	Strand	+
Start	1498	End	5370
Name	OJ991209_15.0222.C5.o1.gs	Method	GENSCAN
Start	1498	End	5370
GI	none	Score	.66
Exons	1498..1609, 2261..2378, 2410..2544, 2654..2858, 4819..4931, 5336..5370		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78181	Strand	+
Start	8821	End	12656
Name	OJ991209_15.0222.C5.o1.np	Method	AAT/NAP
Start	8821	End	10344
GI	5852179	Score	307
Exons	8821..8842, 9832..10030, 10105..10344		
GI Descrip.	(AL117265)-zhb0009.1 [Oryza sativa]		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78181	Strand	+
Start	8821	End	12656
Name	OJ991209_15.0222.C5.o3.gs	Method	GENSCAN
Start	9936	End	12656
GI	none	Score	.6
Exons	9936..10030, 10035..10346, 10478..10650, 11725..11810, 11853..11944, 11989..12246, 12566..12656		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
----------	-------	---------	---------------------

Gene No.	78182	Strand	+
Start	12565	End	12636
Name	OJ991209_15.0222.C5.o2.gp	Method	AAT/GAP
Start	12565	End	12636
GI	1631463	Score	78
Exons	12565..12636		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78183	Strand	-
Start	5787	End	7435
Name	OJ991209_15.0222.C5.o2.gs	Method	GENSCAN
Start	5787	End	7435
GI	none	Score	.76
Exons	5787..5882, 6381..6610, 6664..6873, 7014..7120, 7335..7435		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78184	Strand	-
Start	7927	End	8199
Name	OJ991209_15.0222.C5.o1.gp	Method	AAT/GAP
Start	7927	End	8199
GI	61605_1.R1084	Score	468
Exons	7927..8199		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78185	Strand	-
Start	12998	End	16424
Name	OJ991209_15.0222.C5.o2.np	Method	AAT/NAP
Start	12998	End	16424
GI	4680183	Score	181
Exons	12998..13087, 13332..13402, 16401..16424		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	38039	Seq. ID	OJ991209_15.0222.C5
Gene No.	78185	Strand	-
Start	12998	End	16424
Name	OJ991209_15.0222.C5.o4.gs	Method	GENSCAN
Start	13269	End	14818
GI	none	Score	.41
Exons	13269..13402, 13540..13623, 13905..14015, 14560..14818		

Seq. No.	38040	Seq. ID	OJ991209_15.0222.C6
Gene No.	78186	Strand	+
Start	606	End	5597
Name	OJ991209_15.0222.C6.o1.np	Method	AAT/NAP
Start	606	End	5597
GI	5257279	Score	1171
Exons	606..1151, 1500..1742, 5049..5132, 5518..5597		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	38040	Seq. ID	OJ991209_15.0222.C6
Gene No.	78186	Strand	+

Start	606	End	5597
Name	OJ991209_15.0222.C6.o2.gs	Method	GENSCAN
Start	3224	End	5402
GI	none	Score	.51
Exons	3224..3283, 3811..3981, 4105..4620, 4673..4815, 4919..5402		

Seq. No.	38040	Seq. ID	OJ991209_15.0222.C6
Gene No.	78186	Strand	+
Start	606	End	5597
Name	OJ991209_15.0222.C6.o2.np	Method	AAT/NAP
Start	3643	End	5597
GI	6907089	Score	2073
Exons	3643..4815, 4919..5116, 5286..5439, 5515..5597		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78187	Strand	+
Start	1	End	1356
Name	OJ991209_15.0222.C7.o1.np	Method	AAT/NAP
Start	1	End	1356
GI	6907089	Score	1808
Exons	1..1356		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78188	Strand	+
Start	2339	End	11509
Name	OJ991209_15.0222.C7.o2.np	Method	AAT/NAP
Start	2339	End	11506
GI	6907087	Score	1076
Exons	2339..2722, 2767..2823, 2997..3583, 11405..11506		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78188	Strand	+
Start	2339	End	11509
Name	OJ991209_15.0222.C7.o1.gp	Method	AAT/GAP
Start	4686	End	5067
GI	uC-osflcyp033a04b1	Score	671
Exons	4686..5067		
GI Descrip.	'6016845/dbj AP000570.1 AP000570-3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78188	Strand	+
Start	2339	End	11509
Name	OJ991209_15.0222.C7.o3.gs	Method	GENSCAN
Start	6452	End	7555
GI	none	Score	.44
Exons	6452..7555		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78188	Strand	+
Start	2339	End	11509
Name	OJ991209_15.0222.C7.o4.gs	Method	GENSCAN



Start	8392	End	11509
GI	none	Score	.52
Exons	8392..8507, 9616..9677, 10275..10770, 10772..10976, 11405..11509		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78189	Strand	+
Start	11968	End	12349
Name	OJ991209_15.0222.C7.o3.gp	Method	AAT/GAP
Start	11968	End	12349
GI	uC-osflcyp033a04b1	Score	671
Exons	11968..12349		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78190	Strand	+
Start	15985	End	17076
Name	OJ991209_15.0222.C7.o4.np	Method	AAT/NAP
Start	15985	End	17076
GI	4680186	Score	330
Exons	15985..16039, 16876..17076		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78191	Strand	-
Start	4116	End	4644
Name	OJ991209_15.0222.C7.o2.gs	Method	GENSCAN
Start	4116	End	4644
GI	none	Score	.84
Exons	4116..4222, 4587..4644		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78192	Strand	-
Start	12011	End	14889
Name	OJ991209_15.0222.C7.o3.np	Method	AAT/NAP
Start	11896	End	13845
GI	4680186	Score	245
Exons	11896..12126, 13805..13845		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78192	Strand	-
Start	12011	End	14889
Name	OJ991209_15.0222.C7.o5.gs	Method	GENSCAN
Start	12011	End	14889
GI	none	Score	.45
Exons	12011..12101, 12198..12251, 12852..12935, 14473..14560, 14799..14889		

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78193	Strand	-
Start	16629	End	17009
Name	OJ991209_15.0222.C7.o5.gp	Method	AAT/GAP
Start	16629	End	17009
GI	uC-osflcyp033a04b1	Score	658
Exons	16629..17009		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic		

DNA, chromosome 1, clone:P0711E10'

Seq. No.	38041	Seq. ID	OJ991209_15.0222.C7
Gene No.	78194	Strand	-
Start	17438	End	20751
Name	OJ991209_15.0222.C7.o6.gs	Method	GENSCAN
Start	17438	End	20751
GI	none	Score	.69
Exons	17438..17523, 17819..17882, 18084..18330, 18580..18719, 19611..19668, 20481..20604, 20625..20751		

Seq. No.	38042	Seq. ID	OJ991209_15.0222.C8
Gene No.	78195	Strand	+
Start	1	End	1016
Name	OJ991209_15.0222.C8.o1.np	Method	AAT/NAP
Start	1	End	400
GI	5042454	Score	146
Exons	1..400		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	38042	Seq. ID	OJ991209_15.0222.C8
Gene No.	78195	Strand	+
Start	1	End	1016
Name	OJ991209_15.0222.C8.o1.gs	Method	GENSCAN
Start	138	End	1016
GI	none	Score	.65
Exons	138..416, 813..1016		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78196	Strand	+
Start	1	End	2191
Name	OJ991209_15.0222.C9.o1.np	Method	AAT/NAP
Start	1	End	2191
GI	6175140	Score	694
Exons	1..122, 782..890, 1218..1340, 1519..1662, 1751..2191		
GI Descrip.	(AC010796) unknown protein [Arabidopsis thaliana]		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78196	Strand	+
Start	1	End	2191
Name	OJ991209_15.0222.C9.o1.gs	Method	GENSCAN
Start	714	End	1674
GI	none	Score	.59
Exons	714..923, 1218..1340, 1519..1674		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78197	Strand	-
Start	2949	End	3145
Name	OJ991209_15.0222.C9.o2.tm	Method	TBLASTX:Maize
Start	788	End	1584
GI	none	Score	118
Exons	788..898, 789..899, 789..899, 805..900, 1212..1355, 1217..1348, 1228..1350, 1510..1584, 1510..1584		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78197	Strand	-
Start	2949	End	3145

Name	OJ991209_15.0222.C9.o1.ts	Method	TBLASTX:Soybean
Start	1594	End	2194
GI	5509571	Score	77
Exons	1594..1668, 1596..1652, 1753..1788, 1784..2047, 1787..2047, 2111..2194		
GI Descrip.	2129655/pir_S71212 3.0e-33 OBP32pep protein - Arabidopsis thaliana (fragment) >gi_1022799 (U37698) OBP32pep [Arabidopsis thaliana]		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78197	Strand	-
Start	2949	End	3145
Name	OJ991209_15.0222.C9.o1.tc	Method	TBLASTX:Cress
Start	1901	End	2170
GI	none	Score	208
Exons	1901..2044, 2129..2170		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78197	Strand	-
Start	2949	End	3145
Name	OJ991209_15.0222.C9.o1.tm	Method	TBLASTX:Maize
Start	1901	End	2149
GI	none	Score	298
Exons	1901..2149, 1901..2044		

Seq. No.	38043	Seq. ID	OJ991209_15.0222.C9
Gene No.	78197	Strand	-
Start	2949	End	3145
Name	OJ991209_15.0222.C9.o2.gs	Method	GENSCAN
Start	2949	End	3145
GI	none	Score	.67
Exons	2949..3145		

Seq. No.	38044	Seq. ID	OJ991209_15.0222.C10
Gene No.	78198	Strand	+
Start	37	End	528
Name	OJ991209_15.0222.C10.o1.gs	Method	GENSCAN
Start	37	End	528
GI	none	Score	.74
Exons	37..233, 522..528		

Seq. No.	38044	Seq. ID	OJ991209_15.0222.C10
Gene No.	78199	Strand	+
Start	2926	End	4407
Name	OJ991209_15.0222.C10.o1.gp	Method	AAT/GAP
Start	2926	End	4282
GI	34683_1.R1084	Score	542
Exons	2926..3021, 3140..3258, 4169..4282		
GI Descrip.	'2501555/sp Q40784 AAPC_PENCL 2.0e-13 POSSIBLE APOSPORY-ASSOCIATED PROTEIN C >gi_549984 (U13148) possible apospory-associated protein [Pennisetum ciliare]'		

Seq. No.	38044	Seq. ID	OJ991209_15.0222.C10
Gene No.	78199	Strand	+
Start	2926	End	4407
Name	OJ991209_15.0222.C10.o1.np	Method	AAT/NAP
Start	2978	End	4407

GI 6970044 Score 103  
 Exons 2978..3015, 3180..3258, 4169..4407  
 GI Descrip. (AF195243) apospory-associated protein C; APOC [Chlamydomonas reinhardtii]

Seq. No. 38044 Seq. ID OJ991209\_15.0222.C10  
 Gene No. 78200 Strand -  
 Start 1506 End 4282  
 Name OJ991209\_15.0222.C10.o2.gs Method GENSCAN  
 Start 1506 End 3581  
 GI none Score .55  
 Exons 1506..1644, 3045..3223, 3532..3581

Seq. No. 38044 Seq. ID OJ991209\_15.0222.C10  
 Gene No. 78200 Strand -  
 Start 1506 End 4282  
 Name OJ991209\_15.0222.C10.o1.tm Method TBLASTX:Maize  
 Start 3152 End 4282  
 GI none Score 43  
 Exons 3152..3193, 3155..3181, 3173..3256, 3181..3258, 3214..3258, 4166..4282, 4167..4280, 4171..4281, 4172..4282

Seq. No. 38044 Seq. ID OJ991209\_15.0222.C10  
 Gene No. 78200 Strand -  
 Start 1506 End 4282  
 Name OJ991209\_15.0222.C10.o1.ts Method TBLASTX:Soybean  
 Start 4160 End 4282  
 GI none Score 192  
 Exons 4160..4282, 4167..4280, 4169..4282

Seq. No. 38045 Seq. ID OJ991209\_11.0222.C1  
 Gene No. 78201 Strand +  
 Start 298 End 7271  
 Name OJ991209\_11.0222.C1.o1.gs Method GENSCAN  
 Start 298 End 7250  
 GI none Score .61  
 Exons 298..416, 1145..1230, 1268..1365, 1514..1651, 2460..2682, 6746..6852, 7053..7250

Seq. No. 38045 Seq. ID OJ991209\_11.0222.C1  
 Gene No. 78201 Strand +  
 Start 298 End 7271  
 Name OJ991209\_11.0222.C1.o1.np Method AAT/NAP  
 Start 836 End 7271  
 GI 3980399 Score 353  
 Exons 836..1105, 2407..2638, 6708..6852, 7083..7271  
 GI Descrip. (AC004561) putative tropinone reductase [Arabidopsis thaliana]

Seq. No. 38045 Seq. ID OJ991209\_11.0222.C1  
 Gene No. 78201 Strand +  
 Start 298 End 7271  
 Name OJ991209\_11.0222.C1.o1.tw Method TBLASTX:Wheat  
 Start 6744 End 7247  
 GI none Score 122  
 Exons 6744..6824, 6745..6855, 7094..7240, 7095..7247

Seq. No. 38045 Seq. ID OJ991209\_11.0222.C1

Gene No.	78201	Strand	+
Start	298	End	7271
Name	OJ991209_11.0222.C1.o1.tm	Method	TBLASTX:Maize
Start	6747	End	7247
GI	none	Score	104
Exons	6747..6848, 6748..6843, 7101..7247, 7109..7240		

Seq. No.	38045	Seq. ID	OJ991209_11.0222.C1
Gene No.	78201	Strand	+
Start	298	End	7271
Name	OJ991209_11.0222.C1.o1.ts	Method	TBLASTX:Soybean
Start	6747	End	7247
GI	none	Score	104
Exons	6747..6848, 6748..6843, 7101..7247, 7109..7240		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78202	Strand	+
Start	879	End	2496
Name	OJ991209_11.0222.C2.o1.gs	Method	GENSCAN
Start	879	End	2496
GI	none	Score	.92
Exons	879..884, 2395..2496		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o2.gs	Method	GENSCAN
Start	3297	End	5485
GI	none	Score	.76
Exons	3297..3380, 3769..3925, 4199..4302, 4379..4768, 4847..5039, 5298..5485		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o1.np	Method	AAT/NAP
Start	4703	End	8322
GI	6272381	Score	1324
Exons	4703..4756, 4835..4966, 5938..6375, 6493..6666, 6711..7001, 7079..8322		

GI Descrip. (AC007918) Similar to gi|4325351 T25H8.2 TNP2 protein homolog from Arabidopsis thaliana BAC gb|AF128394.

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o3.gs	Method	GENSCAN
Start	5641	End	8242
GI	none	Score	.96
Exons	5641..6423, 6499..6598, 6694..7005, 7083..7933, 8087..8242		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o1.tm	Method	TBLASTX:Maize
Start	7058	End	7525
GI	none	Score	95

Exons 7058..7225, 7064..7525, 7083..7394

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o1.tw	Method	TBLASTX:Wheat
Start	7064	End	7444
GI	none	Score	103
Exons	7064..7444, 7149..7403		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o1.ts	Method	TBLASTX:Soybean
Start	7088	End	7495
GI	none	Score	103
Exons	7088..7318, 7089..7220, 7322..7495, 7323..7490		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o3.tm	Method	TBLASTX:Maize
Start	7553	End	7768
GI	none	Score	81
Exons	7553..7756, 7659..7757, 7664..7768		

Seq. No.	38046	Seq. ID	OJ991209_11.0222.C2
Gene No.	78203	Strand	-
Start	3297	End	8322
Name	OJ991209_11.0222.C2.o2.tm	Method	TBLASTX:Maize
Start	7973	End	8315
GI	none	Score	106
Exons	7973..8152, 7980..8177, 8159..8314, 8172..8315		

Seq. No.	38047	Seq. ID	OJ991209_11.0222.C3
Gene No.	78204	Strand	-
Start	1	End	924
Name	OJ991209_11.0222.C3.o1.np	Method	AAT/NAP
Start	1	End	924
GI	2209031	Score	506
Exons	1..924		

GI-Descrip. (AB001569) ORF of 1.56 kb [Daucus carota]

Seq. No.	38047	Seq. ID	OJ991209_11.0222.C3
Gene No.	78204	Strand	-
Start	1	End	924
Name	OJ991209_11.0222.C3.o1.ts	Method	TBLASTX:Soybean
Start	184	End	477
GI	none	Score	207
Exons	184..477		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78205	Strand	+
Start	881	End	1447
Name	OJ991209_11.0222.C4.o1.gs	Method	GENSCAN
Start	881	End	1447
GI	none	Score	.83

Exons 881..1447

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78206	Strand	+
Start	9398	End	14447
Name	OJ991209_11.0222.C4.o2.np	Method	AAT/NAP
Start	9398	End	14447
GI	4680186	Score	373
Exons	9398..9444, 13355..13408, 14247..14447		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78206	Strand	+
Start	9398	End	14447
Name	OJ991209_11.0222.C4.o1.np	Method	AAT/NAP
Start	9708	End	12867
GI	4544372	Score	1198
Exons	9708..10729, 10789..11203, 11307..12867		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78207	Strand	+
Start	15461	End	15681
Name	OJ991209_11.0222.C4.o3.gp	Method	AAT/GAP
Start	15461	End	15681
GI	61605_3.R1084	Score	336
Exons	15461..15681		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78208	Strand	+
Start	17226	End	17572
Name	OJ991209_11.0222.C4.o4.gp	Method	AAT/GAP
Start	17226	End	17572
GI	101153_1.R1084	Score	464
Exons	17226..17572		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78209	Strand	-
Start	3434	End	3631
Name	OJ991209_11.0222.C4.o1.gp	Method	AAT/GAP
Start	3434	End	3631
GI	2311364	Score	363
Exons	3434..3631		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78210	Strand	-
Start	13999	End	14380
Name	OJ991209_11.0222.C4.o2.gp	Method	AAT/GAP
Start	13999	End	14380
GI	uC-osflcyp033a04b1	Score	675
Exons	13999..14380		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic		

DNA, chromosome 1, clone:P0711E10'

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o6.ts	Method	TBLASTX:Soybean
Start	9824	End	20174
GI	none	Score	133
Exons	9824..10048, 10055..10189, 20040..20174		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o3.tw	Method	TBLASTX:Wheat
Start	9986	End	20174
GI	none	Score	77
Exons	9986..10042, 9991..10032, 10037..10390, 10044..10130, 10045..10323, 10046..10390, 19845..19982, 19995..20174		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o4.tm	Method	TBLASTX:Maize
Start	10040	End	20174
GI	none	Score	276
Exons	10040..10258, 10045..10257, 19995..20174		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o1.tm	Method	TBLASTX:Maize
Start	10259	End	19976
GI	none	Score	536
Exons	10259..10717, 10259..10654, 19581..19976, 19705..19974		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o1.ts	Method	TBLASTX:Soybean
Start	10343	End	19928
GI	none	Score	182
Exons	10343..10687, 19533..19892, 19534..19824, 19858..19890, 19896..19928, 19897..19926		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o4.tw	Method	TBLASTX:Wheat
Start	10418	End	19820
GI	none	Score	116
Exons	10418..10687, 19518..19820, 19534..19818		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o2.tm	Method	TBLASTX:Maize
Start	10867	End	19446



GI	none	Score	76
Exons	10867..11100, 19083..19445, 19092..19445, 19096..19446		
Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o2.tw	Method	TBLASTX:Wheat
Start	10975	End	19517
GI	none	Score	74
Exons	10975..11103, 19107..19454, 19107..19517, 19108..19485		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o3.ts	Method	TBLASTX:Soybean
Start	11026	End	11434
GI	none	Score	148
Exons	11026..11163, 11028..11159, 11184..11270, 11185..11277, 11282..11434		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o5.tm	Method	TBLASTX:Maize
Start	11884	End	12264
GI	none	Score	92
Exons	11884..12042, 12040..12264		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o5.ts	Method	TBLASTX:Soybean
Start	11887	End	12285
GI	none	Score	222
Exons	11887..12285		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o7.tw	Method	TBLASTX:Wheat
Start	12042	End	12456
GI	none	Score	211
Exons	12042..12125, 12043..12456		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o8.tw	Method	TBLASTX:Wheat
Start	12466	End	12852
GI	none	Score	194
Exons	12466..12852, 12645..12818		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o4.ts	Method	TBLASTX:Soybean
Start	12628	End	12881

GI	none	Score	235
Exons	12628..12873, 12628..12867, 12630..12881		
Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o3.np	Method	AAT/NAP
Start	16050	End	20100
GI	6063554	Score	466
Exons	16050..16224, 16863..16890, 17228..17458, 17576..17862, 19819..20100		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o4.np	Method	AAT/NAP
Start	18372	End	21620
GI	4680179	Score	3642
Exons	18372..20915, 20949..21620		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o3.tm	Method	TBLASTX:Maize
Start	18387	End	18679
GI	none	Score	213
Exons	18387..18677, 18391..18678, 18527..18679		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o2.ts	Method	TBLASTX:Soybean
Start	18477	End	18737
GI	none	Score	131
Exons	18477..18737, 18478..18732		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o1.tw	Method	TBLASTX:Wheat
Start	18525	End	19103
GI	none	Score	335
Exons	18525..19103, 18526..19092		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o6.tw	Method	TBLASTX:Wheat
Start	20526	End	20889
GI	none	Score	64
Exons	20526..20633, 20539..20637, 20679..20888, 20767..20889		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
----------	-------	---------	---------------------

Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o6.tm	Method	TBLASTX:Maize
Start	20569	End	20894
GI	none	Score	48
Exons	20569..20661, 20571..20894, 20770..20838		

Seq. No.	38048	Seq. ID	OJ991209_11.0222.C4
Gene No.	78211	Strand	-
Start	16050	End	21620
Name	OJ991209_11.0222.C4.o5.tw	Method	TBLASTX:Wheat
Start	21198	End	21548
GI	none	Score	112
Exons	21198..21320, 21296..21547, 21354..21548		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78212	Strand	+
Start	830	End	1211
Name	OJ991209_11.0222.C5.o1.gp	Method	AAT/GAP
Start	830	End	1211
GI	uC-osflcyp033a04b1	Score	663
Exons	830..1211		

GI Descrip. '6016845/dbj|AP000570.1|AP000570.3.0e-59.Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78213	Strand	+
Start	13024	End	25344
Name	OJ991209_11.0222.C5.o2.gs	Method	GENSCAN
Start	13024	End	25344
GI	none	Score	.47
Exons	13024..13102, 13134..13296, 16130..16192, 17106..17203, 17538..17718, 17811..17876, 17917..18210, 18914..18966, 20106..20185, 20222..20494, 21572..21785, 22402..22557, 22676..23100, 23434..24025, 24102..24127, 24210..24632, 24901..25344		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78213	Strand	+
Start	13024	End	25344
Name	OJ991209_11.0222.C5.o5.np	Method	AAT/NAP
Start	19034	End	21095
GI	6721561	Score	107
Exons	19034..19138, 21067..21095		

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78214	Strand	+
Start	34008	End	37192
Name	OJ991209_11.0222.C5.q4.gs	Method	GENSCAN
Start	34008	End	37192
GI	none	Score	.6
Exons	34008..34058, 34155..34296, 34447..34650, 34904..35546,		

35823..36099, 36175..36249, 36347..36430, 36509..37192

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78215	Strand	-
Start	2196	End	11408
Name	OJ991209_11.0222.C5.o1.np	Method	AAT/NAP
Start	763	End	6056
GI	4680186	Score	363
Exons	763..963, 1804..1858, 5996..6056		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78215	Strand	-
Start	2196	End	11408
Name	OJ991209_11.0222.C5.o1.gs	Method	GENSCAN
Start	2196	End	11402
GI	none	Score	.64
Exons	2196..2344, 2484..2615, 2864..2980, 5921..6032, 6428..6613, 8483..8627, 9269..9465, 10143..10169, 10832..10900, 10905..11037, 11317..11402		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78215	Strand	-
Start	2196	End	11408
Name	OJ991209_11.0222.C5.o2.np	Method	AAT/NAP
Start	3181	End	9057
GI	6069646	Score	669
Exons	3181..3225, 3896..4776, 5039..5835, 8067..8151, 9036..9057		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78215	Strand	-
Start	2196	End	11408
Name	OJ991209_11.0222.C5.o3.np	Method	AAT/NAP
Start	8539	End	11408
GI	3980415	Score	193
Exons	8539..8622, 10080..10121, 10750..11037, 11317..11408		
GI Descrip.	(AC004561) putative tropinone reductase [Arabidopsis thaliana]		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78216	Strand	-
Start	17059	End	17664
Name	OJ991209_11.0222.C5.o4.np	Method	AAT/NAP
Start	17059	End	17664
GI	6721559	Score	606
Exons	17059..17182, 17214..17664		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78217	Strand	-
Start	24143	End	31270

Name	OJ991209_11.0222.C5.o6.np	Method	AAT/NAP
Start	24143	End	29956
GI	4206306	Score	682
Exons	24143..24163, 26528..28197, 29891..29956		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78217	Strand	-
Start	24143	End	31270
Name	OJ991209_11.0222.C5.o3.gs	Method	GENSCAN
Start	25863	End	31270
GI	none	Score	.55
Exons	25863..26113, 26353..26479, 26505..26855, 27522..27872, 27890..28363, 28419..29195, 29583..29975, 30314..30553, 30566..31270		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o4.tm	Method	TBLASTX:Maize
Start	4843	End	5479
GI	none	Score	50
Exons	4843..4968, 4964..5074, 5099..5479, 5124..5270, 5295..5453		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o7.tm	Method	TBLASTX:Maize
Start	5483	End	5868
GI	none	Score	50
Exons	5483..5605, 5544..5603, 5588..5761, 5598..5768, 5761..5868		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o4.ts	Method	TBLASTX:Soybean
Start	25723	End	37805
GI	none	Score	42
Exons	25723..25761, 25728..25973, 25840..25971, 31853..31954, 37555..37593, 37560..37805, 37624..37791, 37638..37805		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o1.tw	Method	TBLASTX:wheat
Start	26064	End	48462
GI	none	Score	94
Exons	26064..26345, 26255..26437, 37905..38315, 47836..48462, 47839..48090, 47942..48406		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o9.tm	Method	TBLASTX:Maize
Start	26336	End	38549
GI	none	Score	86
Exons	26336..26536, 38169..38393, 38391..38549		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o3.ts	Method	TBLASTX:Soybean
Start	26563	End	39215
GI	none	Score	116
Exons	26563..26817, 26565..26816, 26851..26922, 26855..26920, 38997..39215, 38999..39151		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o3.tm	Method	TBLASTX:Maize
Start	26848	End	49391
GI	none	Score	225
Exons	26848..27081, 49036..49389, 49040..49390, 49254..49391		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o3.tw	Method	TBLASTX:Wheat
Start	26848	End	49461
GI	none	Score	365
Exons	26848..26973, 49039..49461, 49040..49429		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o6.tw	Method	TBLASTX:Wheat
Start	27127	End	49763
GI	none	Score	306
Exons	27127..27261, 27366..27530, 49462..49761, 49478..49762, 49647..49763		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o2.tm	Method	TBLASTX:Maize
Start	27229	End	49904
GI	none	Score	69
Exons	27229..27354, 27230..27355, 27331..27540, 27366..27689, 27384..27689, 49525..49770, 49773..49904		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o1.ts	Method	TBLASTX:Soybean
Start	27360	End	49856
GI	none	Score	205
Exons	27360..27593, 49477..49761, 49478..49762, 49767..49820, 49784..49819, 49824..49856, 49825..49854		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o4.tw	Method	TBLASTX:Wheat

Start	27582	End	50279
GI	none	Score	197
Exons	27582..27689, 27711..27824, 27833..27937, 49797..50174, 49855..50175, 50229..50279		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o6.tm	Method	TBLASTX:Maize
Start	27833	End	50267
GI	none	Score	141
Exons	27833..27931, 49978..50169, 49980..50267		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o7.ts	Method	TBLASTX:Soybean
Start	28533	End	28826
GI	none	Score	187
Exons	28533..28826		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o5.ts	Method	TBLASTX:Soybean
Start	38349	End	38615
GI	none	Score	212
Exons	38349..38615		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o5.gs	Method	GENSCAN
Start	38582	End	51803
GI	none	Score	.73
Exons	38582..39163, 39392..39627, 39715..40018, 40097..40180, 40278..40352, 40402..40827, 40906..40931, 40983..42068, 42219..42360, 42457..42573, 45304..45399, 46548..46748, 47033..47085, 47472..47949, 47995..49500, 49704..50082, 50173..50482, 50765..51803		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o3.gp	Method	AAT/GAP
Start	45091	End	45472
GI	uC-osflcyp033a04b1	Score	667
Exons	45091..45472		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o8.np	Method	AAT/NAP
Start	47458	End	51930
GI	4680179	Score	5170

Exons 47458..50843, 50877..51930  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o5.tw	Method	TBLASTX:Wheat
Start	47503	End	47836
GI	none	Score	111
Exons	47503..47835, 47524..47832, 47567..47836		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o1.tm	Method	TBLASTX:Maize
Start	47683	End	48282
GI	none	Score	109
Exons	47683..48123, 47698..47961, 47939..48121, 48121..48282, 48128..48274		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o5.tm	Method	TBLASTX:Maize
Start	48331	End	48623
GI	none	Score	217
Exons	48331..48621, 48335..48622, 48474..48623		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o2.ts	Method	TBLASTX:Soybean
Start	48421	End	48676
GI	none	Score	137
Exons	48421..48675, 48422..48676		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o2.tw	Method	TBLASTX:Wheat
Start	48469	End	49036
GI	none	Score	323
Exons	48469..49005, 48470..49036		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o6.ts	Method	TBLASTX:Soybean
Start	49210	End	49455
GI	none	Score	101
Exons	49210..49455, 49211..49438		

Seq. No.	38049	Seq. ID	OJ991209_11.0222.C5
Gene No.	78218	Strand	-
Start	38582	End	51930
Name	OJ991209_11.0222.C5.o8.tw	Method	TBLASTX:Wheat
Start	50448	End	50816



GI none Score 70  
Exons 50448..50561, 50449..50562, 50607..50816, 50608..50760

Seq. No. 38049 Seq. ID OJ991209\_11.0222.C5  
Gene No. 78218 Strand -  
Start 38582 End 51930  
Name OJ991209\_11.0222.C5.o7.tw Method TBLASTX:Wheat  
Start 51135 End 51486  
GI none Score 85  
Exons 51135..51485, 51292..51486

Seq. No. 38049 Seq. ID OJ991209\_11.0222.C5  
Gene No. 78218 Strand -  
Start 38582 End 51930  
Name OJ991209\_11.0222.C5.o8.tm Method TBLASTX:Maize  
Start 51180 End 51485  
GI none Score 75  
Exons 51180..51485, 51355..51471

Seq. No. 38049 Seq. ID OJ991209\_11.0222.C5  
Gene No. 78218 Strand -  
Start 38582 End 51930  
Name OJ991209\_11.0222.C5.o9.tw Method TBLASTX:Wheat  
Start 51528 End 51764  
GI none Score 114  
Exons 51528..51719, 51529..51717, 51726..51764

Seq. No. 38050 Seq. ID OJ991209\_11.0222.C6  
Gene No. 78219 Strand -  
Start 122 End 1163  
Name OJ991209\_11.0222.C6.o1.gs Method GENSCAN  
Start 122 End 1163  
GI none Score .42  
Exons 122..736, 867..931, 1154..1163

Seq. No. 38051 Seq. ID OJ991209\_11.0222.C7  
Gene No. 78220 Strand +  
Start 16101 End 20780  
Name OJ991209\_11.0222.C7.o2.np Method AAT/NAP  
Start 16101 End 20780  
GI 4206306 Score 1347  
Exons 16101..16170, 16409..16565, 16710..17177, 17374..19346,  
19503..20780

GI Descrip. (AF049110) prpol [Zea mays]

Seq. No. 38051 Seq. ID OJ991209\_11.0222.C7  
Gene No. 78220 Strand +  
Start 16101 End 20780  
Name OJ991209\_11.0222.C7.o3.np Method AAT/NAP  
Start 16900 End 20780  
GI 4115365 Score 1010  
Exons 16900..17051, 17524..18009, 18217..18819, 19049..19958,  
20004..20780  
GI Descrip. (AC005957) putative retroelement pol polyprotein [Arabidopsis  
thaliana]

Seq. No. 38051 Seq. ID OJ991209\_11.0222.C7

Gene No.	78221	Strand	+
Start	24961	End	26233
Name	OJ991209_11.0222.C7.o5.gs	Method	GENSCAN
Start	24961	End	26233
GI	none	Score	.56
Exons	24961..25050, 25158..25370, 25847..26233		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78222	Strand	+
Start	26432	End	26701
Name	OJ991209_11.0222.C7.o6.gs	Method	GENSCAN
Start	26432	End	26701
GI	none	Score	.99
Exons	26432..26701		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78223	Strand	-
Start	313	End	8348
Name	OJ991209_11.0222.C7.o1.gs	Method	GENSCAN
Start	313	End	8348
GI	none	Score	.53
Exons	313..417, 958..1612, 1645..1767, 2284..2371, 3170..4419,		

4535..5030, 5497..5640, 7376..7432, 7728..7899, 7969..8212, 8269..8348

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78223	Strand	-
Start	313	End	8348
Name	OJ991209_11.0222.C7.o1.gp	Method	AAT/GAP
Start	6537	End	6918
GI	uC-osflcyp033a04b1	Score	659
Exons	6537..6918		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78224	Strand	-
Start	8988	End	13287
Name	OJ991209_11.0222.C7.o1.np	Method	AAT/NAP
Start	8988	End	13287
GI	4680179	Score	4483
Exons	8988..12387, 12421..12478, 13185..13287		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o2.ts	Method	TBLASTX:Soybean
Start	2745	End	19154
GI	none	Score	183
Exons	2745..2807, 2829..2861, 2861..2965, 18737..18871, 18738..18881, 18738..18875, 18912..19154, 18914..18997, 19037..19153		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o4.tw	Method	TBLASTX:Wheat

Start	2888	End	18815
GI	none	Score	254
Exons	2888..3016, 10566..10928, 10566..10991, 10570..10953, 18687..18815		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o3.tm	Method	TBLASTX:Maize
Start	2891	End	18812
GI	none	Score	183
Exons	2891..3136, 10557..10919, 10566..10919, 10570..10920, 18579..18812		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o5.tw	Method	TBLASTX:Wheat
Start	3201	End	18524
GI	none	Score	257
Exons	3201..3305, 10992..11294, 11008..11292, 18126..18422, 18399..18524		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o2.tm	Method	TBLASTX:Maize
Start	3273	End	18431
GI	none	Score	193
Exons	3273..3734, 3274..3585, 3429..3734, 11055..11450, 17970..18431, 17972..18430		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o1.ts	Method	TBLASTX:Soybean
Start	3306	End	18398
GI	none	Score	210
Exons	3306..3638, 11007..11366, 11008..11298, 11329..11364, 11370..11402, 11371..11400, 18072..18398		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o11.tw	Method	TBLASTX:Wheat
Start	3306	End	6402
GI	none	Score	86
Exons	3306..3602, 3322..3522, 6358..6402		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o3.tw	Method	TBLASTX:Wheat
Start	3603	End	18103
GI	none	Score	253
Exons	3603..3947, 3603..3956, 3646..3948, 3951..4007, 3961..4002, 11319..11456, 11469..11648, 11487..11648, 17694..18101,		

17711..18103, 17771..18103

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o5.tm	Method	TBLASTX:Maize
Start	3735	End	17969
GI	none	Score	224
Exons	3735..3953, 3736..3948, 3753..3953, 11469..11648, 17754..17969, 17759..17968		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o6.ts	Method	TBLASTX:Soybean
Start	3804	End	17900
GI	none	Score	149
Exons	3804..3938, 11514..11648, 17532..17750, 17766..17900		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o8.ts	Method	TBLASTX:Soybean
Start	4579	End	17050
GI	none	Score	196
Exons	4579..4917, 16688..17050		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o9.tw	Method	TBLASTX:Wheat
Start	4801	End	26794
GI	none	Score	66
Exons	4801..4905, 16742..16876, 26438..26563, 26591..26794, 26603..26758, 26686..26790		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o6.tm	Method	TBLASTX:Maize
Start	5711	End	15479
GI	none	Score	66
Exons	5711..5842, 5739..5801, 15201..15326, 15212..15325, 15351..15479, 15377..15472		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o6.tw	Method	TBLASTX:Wheat
Start	9033	End	9366
GI	none	Score	140
Exons	9033..9365, 9097..9366		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o1.tm	Method	TBLASTX:Maize

Start	9213	End	9812
GI	none	Score	213
Exons	9213..9653, 9229..9651, 9651..9812, 9657..9809		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o1.tw	Method	TBLASTX:Wheat
Start	9366	End	20450
GI	none	Score	41
Exons	9366..9992, 9367..9426, 9369..9620, 9478..9936, 20031..20450		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o4.tm	Method	TBLASTX:Maize
Start	9864	End	10153
GI	none	Score	204
Exons	9864..10151, 9865..10152, 9965..10153		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o3.ts	Method	TBLASTX:Soybean
Start	9951	End	10206
GI	none	Score	105
Exons	9951..10154, 9951..10205, 9952..10206		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o2.tw	Method	TBLASTX:Wheat
Start	9999	End	19907
GI	none	Score	334
Exons	9999..10535, 10000..10491, 19788..19907		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o7.ts	Method	TBLASTX:Soybean
Start	10740	End	18629
GI	none	Score	94
Exons	10740..10985, 10741..10968, 18441..18629		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o7.tw	Method	TBLASTX:Wheat
Start	11994	End	12362
GI	none	Score	63
Exons	11994..12107, 11995..12108, 12153..12362, 12154..12306		

Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o10.tw	Method	TBLASTX:Wheat
Start	18914	End	19289

GI	none	Score	192
Exons	18914..19000, 18927..19289, 19052..19162		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o7.tm	Method	TBLASTX:Maize
Start	19671	End	19949
GI	none	Score	187
Exons	19671..19949		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o5.ts	Method	TBLASTX:Soybean
Start	19803	End	20198
GI	none	Score	231
Exons	19803..20198, 19904..20098		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o4.ts	Method	TBLASTX:Soybean
Start	20541	End	20786
GI	none	Score	243
Exons	20541..20786, 20553..20606, 20585..20671		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o8.tm	Method	TBLASTX:Maize
Start	20559	End	20798
GI	none	Score	89
Exons	20559..20636, 20622..20690, 20688..20798		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o4.gs	Method	GENSCAN
Start	22059	End	22283
GI	none	Score	.92
Exons	22059..22283		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o9.tm	Method	TBLASTX:Maize
Start	25215	End	25484
GI	none	Score	185
Exons	25215..25484		
Seq. No.	38051	Seq. ID	OJ991209_11.0222.C7
Gene No.	78225	Strand	-
Start	22059	End	26794
Name	OJ991209_11.0222.C7.o8.tw	Method	TBLASTX:Wheat
Start	25230	End	25571
GI	none	Score	201

Exons 25230..25571, 25280..25552

Seq. No.	38052	Seq. ID	OJ991209_11.0222.C8
Gene No.	78226	Strand	+
Start	1	End	717
Name	OJ991209_11.0222.C8.o1.np	Method	AAT/NAP
Start	1	End	717
GI	5852180	Score	67
Exons	1..68, 680..717		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	38052	Seq. ID	OJ991209_11.0222.C8
Gene No.	78226	Strand	+
Start	1	End	717
Name	OJ991209_11.0222.C8.o2.np	Method	AAT/NAP
Start	1	End	365
GI	4680186	Score	337
Exons	1..49, 165..365		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38052	Seq. ID	OJ991209_11.0222.C8
Gene No.	78226	Strand	+
Start	1	End	717
Name	OJ991209_11.0222.C8.o1.gs	Method	GENSCAN
Start	165	End	368
GI	none	Score	.49
Exons	165..368		

Seq. No.	38052	Seq. ID	OJ991209_11.0222.C8
Gene No.	78227	Strand	-
Start	1	End	298
Name	OJ991209_11.0222.C8.o1.gp	Method	AAT/GAP
Start	1	End	298
GI	uC-osflcyp033a04b1	Score	542
Exons	1..298		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38053	Seq. ID	OJ991209_11.0222.C9
Gene No.	78228	Strand	-
Start	1	End	678
Name	OJ991209_11.0222.C9.o1.np	Method	AAT/NAP
Start	1	End	678
GI	5852180	Score	376
Exons	1..500, 552..678		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	38054	Seq. ID	OJ991119_05.0207.C2
Gene No.	78229	Strand	-
Start	3215	End	3527
Name	OJ991119_05.0207.C2.o1.ts	Method	TBLASTX:Soybean
Start	786	End	1175
GI	none	Score	82
Exons	786..968, 1005..1175, 1027..1164		

Seq. No.	38054	Seq. ID	OJ991119_05.0207.C2
Gene No.	78229	Strand	-

Start	3215	End	3527
Name	OJ991119_05.0207.C2.o1.gp	Method	AAT/GAP
Start	3215	End	3527
GI	31047_1.R1084	Score	536
Exons	3215..3527		
GI Descrip.	'4185143 8.0e-68 (AC005724) putative signal recognition particle receptor beta subunit [Arabidopsis thaliana]'		

Seq. No.	38055	Seq. ID	OJ991119_05.0207.C3
Gene No.	78230	Strand	+
Start	459	End	600
Name	OJ991119_05.0207.C3.o1.gs	Method	GENSCAN
Start	459	End	600
GI	none	Score	.99
Exons	459..600		

Seq. No.	38056	Seq. ID	OJ991119_05.0207.C4
Gene No.	78231	Strand	+
Start	60	End	368
Name	OJ991119_05.0207.C4.o1.gs	Method	GENSCAN
Start	60	End	368
GI	none	Score	.85
Exons	60..368		

Seq. No.	38057	Seq. ID	OJ991119_05.0207.C5
Gene No.	78232	Strand	-
Start	26	End	503
Name	OJ991119_05.0207.C5.o1.gs	Method	GENSCAN
Start	26	End	503
GI	none	Score	.93
Exons	26..503		

Seq. No.	38058	Seq. ID	OJ991119_05.0207.C6
Gene No.	78233	Strand	+
Start	1	End	1150
Name	OJ991119_05.0207.C6.o1.np	Method	AAT/NAP
Start	1	End	1150
GI	6815072	Score	1001
Exons	1..1150		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	38058	Seq. ID	OJ991119_05.0207.C6
Gene No.	78233	Strand	+
Start	1	End	1150
Name	OJ991119_05.0207.C6.o1.gs	Method	GENSCAN
Start	581	End	1072
GI	none	Score	.67
Exons	581..1072		

Seq. No.	38058	Seq. ID	OJ991119_05.0207.C6
Gene No.	78233	Strand	+
Start	1	End	1150
Name	OJ991119_05.0207.C6.o1.tm	Method	TBLASTX:Maize
Start	667	End	1035
GI	none	Score	291
Exons	667..1035, 667..765, 684..911		



Seq. No.	38059	Seq. ID	OJ991119_05.0207.C7
Gene No.	78234	Strand	+
Start	196	End	3726
Name	OJ991119_05.0207.C7.o1.gs	Method	GENSCAN
Start	196	End	3726
GI	none	Score	.69
Exons	196..348, 457..733, 804..897, 982..1115, 1192..1273, 1797..2103, 2478..2656, 2774..2858, 3325..3350, 3501..3726		

Seq. No.	38059	Seq. ID	OJ991119_05.0207.C7
Gene No.	78235	Strand	+
Start	7989	End	8364
Name	OJ991119_05.0207.C7.o1.tm	Method	TBLASTX:Maize
Start	4535	End	4795
GI	none	Score	110
Exons	4535..4600, 4607..4795, 4644..4790		

Seq. No.	38059	Seq. ID	OJ991119_05.0207.C7
Gene No.	78235	Strand	+
Start	7989	End	8364
Name	OJ991119_05.0207.C7.o1.gp	Method	AAT/GAP
Start	7989	End	8364
GI	7375_1.R1084	Score	673
Exons	7989..8364		
GI Descrip.	'4049342/emb CAA22567.1  3.0e-14 (AL034567) adenylate translocator (brittle-1)-like protein [Arabidopsis thaliana]'		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78236	Strand	+
Start	1	End	366
Name	OJ991119_05.0207.C8.o1.gp	Method	AAT/GAP
Start	1	End	366
GI	7375_1.R1084	Score	133
Exons	1..74, 331..366		
GI Descrip.	'4049342/emb CAA22567.1  3.0e-14 (AL034567) adenylate translocator (brittle-1)-like protein [Arabidopsis thaliana]'		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78237	Strand	+
Start	331	End	1175
Name	OJ991119_05.0207.C8.o1.gs	Method	GENSCAN
Start	331	End	986
GI	none	Score	.54
Exons	331..416, 559..617, 848..986		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78237	Strand	+
Start	331	End	1175
Name	OJ991119_05.0207.C8.o2.gp	Method	AAT/GAP
Start	376	End	1175
GI	none	Score	816
Exons	376..416, 559..617, 848..1175		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78238	Strand	+
Start	5946	End	10615

Name	OJ991119_05.0207.C8.o1.np	Method	AAT/NAP
Start	5931	End	10311
GI	2586082	Score	4220
Exons	5931..8338, 8402..8643, 8674..10311		
GI Descrip.	(U72725) retrofit [Oryza longistaminata]		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78238	Strand	+
Start	5946	End	10615
Name	OJ991119_05.0207.C8.o3.gs	Method	GENSCAN
Start	5946	End	10615
GI	none	Score	.42
Exons	5946..6242, 6268..6379, 6419..8751, 9088..9205, 9383..9527, 9852..10023, 10607..10615		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78239	Strand	+
Start	17782	End	18298
Name	OJ991119_05.0207.C8.o3.np	Method	AAT/NAP
Start	17782	End	18298
GI	4803935	Score	165
Exons	17782..17852, 18040..18298		
GI Descrip.	(AC006264) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78239	Strand	+
Start	17782	End	18298
Name	OJ991119_05.0207.C8.o5.gp	Method	AAT/GAP
Start	18022	End	18238
GI	none	Score	426
Exons	18022..18238		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78240	Strand	-
Start	3231	End	3800
Name	OJ991119_05.0207.C8.o2.gs	Method	GENSCAN
Start	3231	End	3800
GI	none	Score	1
Exons	3231..3800		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78241	Strand	-
Start	7468	End	16997
Name	OJ991119_05.0207.C8.o2.np	Method	AAT/NAP
Start	7468	End	16606
GI	2760323	Score	607
Exons	7468..7561, 13870..14024, 14966..15094, 15181..15232, 15444..15517, 15944..16232, 16328..16440, 16540..16606		
GI Descrip.	(AC002130) F1N21.8 [Arabidopsis thaliana]		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78241	Strand	-
Start	7468	End	16997
Name	OJ991119_05.0207.C8.o4.gs	Method	GENSCAN
Start	12034	End	12386
GI	none	Score	.58
Exons	12034..12252, 12306..12386		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78241	Strand	-
Start	7468	End	16997
Name	OJ991119_05.0207.C8.o3.gp	Method	AAT/GAP
Start	13383	End	16030
GI	29364_1.R1084	Score	1464
Exons	13383..13701, 13870..14021, 14233..14263, 14991..15100, 15181..15232, 15453..15517, 15944..16030		
GI Descrip.	'2760323 6.0e-32 (AC002130) F1N21.8 [Arabidopsis thaliana]'		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78241	Strand	-
Start	7468	End	16997
Name	OJ991119_05.0207.C8.o5.gs	Method	GENSCAN
Start	13470	End	16818
GI	none	Score	.88
Exons	13470..13514, 13870..14021, 14233..14263, 15453..15517, 15944..16229, 16328..16440, 16540..16585, 16807..16818		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78241	Strand	-
Start	7468	End	16997
Name	OJ991119_05.0207.C8.o4.gp	Method	AAT/GAP
Start	16200	End	16997
GI	97026_1.R1084	Score	605
Exons	16200..16226, 16328..16440, 16540..16585, 16807..16997		
GI Descrip.	'2760323 2.0e-19 (AC002130) F1N21.8 [Arabidopsis thaliana]'		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o5.tm	Method	TBLASTX:Maize
Start	6027	End	6447
GI	none	Score	82
Exons	6027..6107, 6144..6197, 6247..6447, 6273..6443		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o5.tw	Method	TBLASTX:Wheat
Start	6277	End	6594
GI	none	Score	252
Exons	6277..6594, 6282..6491		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o2.tw	Method	TBLASTX:Wheat
Start	6781	End	7170
GI	none	Score	413
Exons	6781..7170, 6798..7067, 6892..7164		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o6.tm	Method	TBLASTX:Maize

Start	6877	End	7179
GI	none	Score	264
Exons	6877..7179, 6882..7100, 7027..7146		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o5.ts	Method	TBLASTX:Soybean
Start	7264	End	7665
GI	none	Score	77
Exons	7264..7359, 7363..7470, 7492..7665		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o4.tm	Method	TBLASTX:Maize
Start	7669	End	8096
GI	none	Score	64
Exons	7669..7758, 7780..8094, 7911..8096		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o3.ts	Method	TBLASTX:Soybean
Start	7672	End	8103
GI	none	Score	260
Exons	7672..8103		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o1.tc	Method	TBLASTX:Cress
Start	7675	End	8124
GI	none	Score	336
Exons	7675..8124		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o4.tw	Method	TBLASTX:Wheat
Start	7777	End	8133
GI	none	Score	287
Exons	7777..8133, 7794..8117		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o2.ts	Method	TBLASTX:Soybean
Start	8782	End	9285
GI	5509260	Score	400
Exons	8782..9285, 8904..9068, 9108..9272		
GI Descrip.	-		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o7.tm	Method	TBLASTX:Maize

Start 8821  
GI none  
Exons 8821..9078, 8829..9077

End 9078  
Score 209

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o2.tc  
Start 8902  
GI none  
Exons 8902..9168, 8913..9149, 9091..9159

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Cress  
End 9168  
Score 273

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o3.tw  
Start 8949  
GI none  
Exons 8949..9047, 8950..9294, 9099..9167, 9103..9258, 9280..9462

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Wheat  
End 9462  
Score 277

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o2.tm  
Start 9082  
GI none  
Exons 9082..9528, 9102..9392

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Maize  
End 9528  
Score 387

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o5.tc  
Start 9346  
GI none  
Exons 9346..9597, 9355..9591

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Cress  
End 9597  
Score 203

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o1.tw  
Start 9463  
GI none  
Exons 9463..9900, 9468..9782, 9860..9898

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Wheat  
End 9900  
Score 443

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o1.tm  
Start 9652  
GI none  
Exons 9652..10059, 9654..9818, 9858..10001, 10083..10181, 10084..10260

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Maize  
End 10260  
Score 312

Seq. No. 38060  
Gene No. 78242  
Start 17908  
Name OJ991119\_05.0207.C8.o1.ts  
Start 9664

Seq. ID OJ991119\_05.0207.C8  
Strand -  
End 18187  
Method TBLASTX:Soybean  
End 10287

GI	none	Score	541
Exons	9664..10287, 9666..9818, 9858..10052, 9862..10254, 10083..10259		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o4.tc	Method	TBLASTX:Cress
Start	9856	End	10361
GI	none	Score	58
Exons	9856..9927, 9937..10059, 10075..10278, 10305..10361		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o6.tw	Method	TBLASTX:Wheat
Start	9907	End	10263
GI	none	Score	91
Exons	9907..10065, 9957..10058, 10071..10154, 10072..10263		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o3.tm	Method	TBLASTX:Maize
Start	13493	End	16588
GI	none	Score	49
Exons	13493..13555, 13499..13552, 13578..13601, 13585..13632, 13604..13633, 13605..13634, 13632..13736, 13635..13718, 13636..13743, 13867..14025, 13907..14020, 13918..14022, 13918..14007, 13918..14007, 14976..15101, 14990..15091, 14991..15101, 14991..15101, 14992..15102, 14998..15111, 15000..15089, 15152..15232, 15180..15233, 15180..15245, 15433..15474, 15438..15476, 15440..15475, 15480..15518, 15482..15520, 15487..15522, 15867..15902, 15928..16197, 15941..16186, 16062..16199, 16063..16200, 16317..16421, 16317..16379, 16328..16462, 16328..16450, 16337..16429, 16340..16441, 16341..16421, 16352..16444, 16536..16586, 16538..16588		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o4.ts	Method	TBLASTX:Soybean
Start	13846	End	16588
GI	none	Score	121
Exons	13846..14007, 13870..14025, 13879..14007, 13919..14017, 14973..15089, 14979..15098, 14991..15086, 14998..15108, 15000..15092, 15000..15101, 15001..15099, 15182..15232, 15453..15497, 15942..16010, 16021..16071, 16071..16130, 16173..16244, 16329..16421, 16331..16450, 16334..16429, 16340..16432, 16536..16586, 16538..16588		

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o3.tc	Method	TBLASTX:Cress
Start	13870	End	16589
GI	none	Score	67

Exons 13870..14007, 14991..15092, 14998..15108, 15000..15101,  
16329..16421, 16331..16450, 16349..16459, 16538..16588,  
16539..16589

Seq. No.	38060	Seq. ID	OJ991119_05.0207.C8
Gene No.	78242	Strand	-
Start	17908	End	18187
Name	OJ991119_05.0207.C8.o6.gs	Method	GENSCAN
Start	17908	End	18187
GI	none	Score	.62
Exons	17908..18187		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78243	Strand	+
Start	1	End	4625
Name	OJ991119_05.0207.C9.o1.np	Method	AAT/NAP
Start	1	End	1883
GI	4803935	Score	385
Exons	1..391, 471..598, 1845..1883		
GI Descrip.	(AC006264) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78243	Strand	+
Start	1	End	4625
Name	OJ991119_05.0207.C9.o1.gs	Method	GENSCAN
Start	158	End	4479
GI	none	Score	.91
Exons	158..391, 471..726, 810..928, 983..1031, 1697..3247, 3809..4479		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78243	Strand	+
Start	1	End	4625
Name	OJ991119_05.0207.C9.o2.np	Method	AAT/NAP
Start	574	End	4491
GI	3047095	Score	1149
Exons	574..720, 1868..2494, 2597..3260, 3822..4491		
GI Descrip.	(AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 72.39) [Arabidopsis thaliana]		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78243	Strand	+
Start	1	End	4625
Name	OJ991119_05.0207.C9.o2.gp	Method	AAT/GAP
Start	1629	End	1988
GI	739431.R1084	Score	627
Exons	1629..1988		
GI Descrip.	'3047095 4.0e-37 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 72.39) [Arabidopsis thaliana]'		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78243	Strand	+
Start	1	End	4625
Name	OJ991119_05.0207.C9.o4.gp	Method	AAT/GAP
Start	2082	End	2548
GI	3761696	Score	872
Exons	2082..2548		

GI Descrip. 3047095 4.0e-37 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 72.39) [Arabidopsis thaliana]

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78243	Strand	+
Start	1	End	4625
Name	OJ991119_05.0207.C9.o5.gp	Method	AAT/GAP
Start	4250	End	4625
GI	89874_1.R1084	Score	696
Exons	4250..4625		

GI Descrip. '3047095 4.0e-37 (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 72.39) [Arabidopsis thaliana]'

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78244	Strand	+
Start	6503	End	10063
Name	OJ991119_05.0207.C9.o3.gs	Method	GENSCAN
Start	6503	End	10063
GI	none	Score	.63
Exons	6503..6587, 6820..6956, 7095..7327, 7372..7904, 7932..8100, 8204..9143, 9158..10063		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78244	Strand	+
Start	6503	End	10063
Name	OJ991119_05.0207.C9.o3.np	Method	AAT/NAP
Start	6840	End	10060
GI	6907089	Score	4303
Exons	6840..8100, 8204..10060		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78245	Strand	-
Start	4778	End	5862
Name	OJ991119_05.0207.C9.o2.gs	Method	GENSCAN
Start	4778	End	5862
GI	none	Score	.76
Exons	4778..4864, 5158..5328, 5599..5688, 5818..5862		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o2.tm	Method	TBLASTX:Maize
Start	92	End	358
GI	none	Score	303
Exons	92..358, 94..357		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o1.tc	Method	TBLASTX:Cress
Start	1903	End	2463
GI	none	Score	44
Exons	1903..1950, 2047..2190, 2188..2337, 2218..2463		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
----------	-------	---------	---------------------



Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o2.ts	Method	TBLASTX:Soybean
Start	2041	End	2298
GI	none	Score	131
Exons	2041..2178, 2073..2177, 2169..2285, 2173..2298		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o3.tm	Method	TBLASTX:Maize
Start	2926	End	3252
GI	none	Score	109
Exons	2926..3087, 2988..3113, 3094..3252, 3159..3251		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o1.ts	Method	TBLASTX:Soybean
Start	2950	End	4020
GI	none	Score	289
Exons	2950..3252, 2988..3248, 3841..4020		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o3.tc	Method	TBLASTX:Cress
Start	2965	End	4149
GI	none	Score	92
Exons	2965..3087, 2985..3083, 3835..3897, 3916..4149		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o2.tc	Method	TBLASTX:Cress
Start	3088	End	3252
GI	none	Score	214
Exons	3088..3252, 3096..3251		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o1.tm	Method	TBLASTX:Maize
Start	3894	End	4410
GI	none	Score	404
Exons	3894..4133, 3895..4158, 4144..4287, 4270..4410		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o1.tw	Method	TBLASTX:Wheat
Start	7873	End	11307
GI	none	Score	77
Exons	7873..7956, 10699..10824, 10703..10825, 11011..11307, 11018..11263		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
----------	-------	---------	---------------------

Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o4.tm	Method	TBLASTX:Maize
Start	10678	End	10831
GI	none	Score	128
Exons	10678..10830, 10691..10831		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o4.gs	Method	GENSCAN
Start	10687	End	12494
GI	none	Score	.68
Exons	10687..11447, 11795..12494		

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o4.np	Method	AAT/NAP
Start	10690	End	13544
GI	6498441	Score	1014
Exons	10690..10971, 11065..11514, 13195..13544		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	38061	Seq. ID	OJ991119_05.0207.C9
Gene No.	78246	Strand	-
Start	10687	End	13544
Name	OJ991119_05.0207.C9.o5.np	Method	AAT/NAP
Start	12099	End	12535
GI	4680185	Score	465
Exons	12099..12535		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38062	Seq. ID	OJ991119_05.0207.C10
Gene No.	78247	Strand	-
Start	418	End	645
Name	OJ991119_05.0207.C10.o1.gs	Method	GENSCAN
Start	418	End	645
GI	none	Score	.98
Exons	418..510, 601..645		

Seq. No.	38063	Seq. ID	OJ991119_05.0207.C11
Gene No.	78248	Strand	+
Start	174	End	3656
Name	OJ991119_05.0207.C11.o1.np	Method	AAT/NAP
Start	174	End	3394
GI	6862923	Score	116
Exons	174..219, 1793..1975, 3340..3394		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	38063	Seq. ID	OJ991119_05.0207.C11
Gene No.	78248	Strand	+
Start	174	End	3656
Name	OJ991119_05.0207.C11.o1.gs	Method	GENSCAN
Start	1402	End	3656

GI none  
Exons 1402..2220, 3228..3656

Score .7

Seq. No. 38063  
Gene No. 78248  
Start 174  
Name OJ991119\_05.0207.C11.o1.tm  
Start 1788  
GI none  
Exons 1788..1946, 1789..1974

Seq. ID OJ991119\_05.0207.C11  
Strand +  
End 3656  
Method TBLASTX:Maize  
End 1974  
Score 192

Seq. No. 38064  
Gene No. 78249  
Start 595  
Name OJ991119\_05.0207.C12.o1.gs  
Start 595  
GI none  
Exons 595..843

Seq. ID OJ991119\_05.0207.C12  
Strand +  
End 843  
Method GENSCAN  
End 843  
Score .9

Seq. No. 38065  
Gene No. 78250  
Start 1  
Name OJ991119\_05.0207.C13.o1.np  
Start 1  
GI 6815072  
Exons 1..180, 267..965, 1073..1516

Seq. ID OJ991119\_05.0207.C13  
Strand -  
End 1516  
Method AAT/NAP  
End 1516  
Score 1277

GI Descrip. (AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]

Seq. No. 38065  
Gene No. 78250  
Start 1  
Name OJ991119\_05.0207.C13.o2.tm  
Start 110  
GI none  
Exons 110..193, 111..194, 222..380, 384..575, 385..576

Seq. ID OJ991119\_05.0207.C13  
Strand -  
End 1516  
Method TBLASTX:Maize  
End 576  
Score 69

Seq. No. 38065  
Gene No. 78250  
Start 1  
Name OJ991119\_05.0207.C13.o1.tw  
Start 259  
GI none  
Exons 259..378, 300..398, 396..620, 397..567, 405..578

Seq. ID OJ991119\_05.0207.C13  
Strand -  
End 1516  
Method TBLASTX:Wheat  
End 620  
Score 103

Seq. No. 38065  
Gene No. 78250  
Start 1  
Name OJ991119\_05.0207.C13.o1.gs  
Start 267  
GI none  
Exons 267..908, 989..1269, 1315..1414

Seq. ID OJ991119\_05.0207.C13  
Strand -  
End 1516  
Method GENSCAN  
End 1414  
Score .44

Seq. No. 38065  
Gene No. 78250  
Start 1  
Name OJ991119\_05.0207.C13.o1.tm

Seq. ID OJ991119\_05.0207.C13  
Strand -  
End 1516  
Method TBLASTX:Maize

Start	639	End	1330
GI	none	Score	76
Exons	639..788, 813..971, 817..882, 1004..1162, 1229..1261, 1271..1330		

Seq. No.	38066	Seq. ID	OJ991119_05.0207.C14
Gene No.	78251	Strand	-
Start	218	End	371
Name	OJ991119_05.0207.C14.o1.gs	Method	GENSCAN
Start	218	End	371
GI	none	Score	.44
Exons	218..371		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78252	Strand	+
Start	10912	End	14554
Name	OJ991119_05.0207.C15.o4.gp	Method	AAT/GAP
Start	10670	End	10965
GI	5667407	Score	516
Exons	10670..10965		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78252	Strand	+
Start	10912	End	14554
Name	OJ991119_05.0207.C15.o3.gs	Method	GENSCAN
Start	10912	End	14462
GI	none	Score	.75
Exons	10912..10998, 11080..11139, 12187..12284, 12536..12582, 13610..13768, 13882..14060, 14319..14462		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78252	Strand	+
Start	10912	End	14554
Name	OJ991119_05.0207.C15.o4.np	Method	AAT/NAP
Start	10912	End	14554
GI	6143904	Score	977
Exons	10912..10998, 11080..11139, 12202..12284, 12536..12695, 12868..12997, 13610..13768, 13882..14060, 14154..14234, 14313..14554		

GI Descrip. (AC010718) putative DnaJ protein [Arabidopsis thaliana]

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78252	Strand	+
Start	10912	End	14554
Name	OJ991119_05.0207.C15.o5.gp	Method	AAT/GAP
Start	12640	End	14349
GI	164161.R1084	Score	1102
Exons	12640..12695, 12868..12997, 13610..13768, 13882..14060, 14154..14234, 14319..14349		

GI Descrip. '2230757/emb|CAA72705| 7.0e-70 (Y11969) dnaJ-like protein [Arabidopsis thaliana]'

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78253	Strand	-
Start	141	End	660
Name	OJ991119_05.0207.C15.o1.gs	Method	GENSCAN
Start	141	End	660
GI	none	Score	.48

Exons 141..290, 336..660

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o2.gs	Method	GENSCAN
Start	1714	End	8534
GI	none	Score	.75
Exons	1714..1858, 2109..2148, 2196..2505, 3386..3455, 3713..3779, 3956..4077, 4284..4367, 4554..4650, 4746..4788, 5982..6002, 6954..7320, 7416..7572, 8147..8534		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o1.np	Method	AAT/NAP
Start	3356	End	5269
GI	2864612	Score	476
Exons	3356..3455, 3964..4077, 4284..4367, 4554..4650, 5167..5269		
GI Descrip.	(AL021811) L-ascorbate peroxidase - like protein [Arabidopsis thaliana] gi 4049334 emb CAA22559.1  (AL034567) L-ascorbate peroxidase-like protein [Arabidopsis thaliana]		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o1.gp	Method	AAT/GAP
Start	4280	End	4367
GI	LIB3432-042-P2-K1-E12	Score	118
Exons	4280..4367		
GI Descrip.	'2864612/emb CAA16959  4.0e-24 (AL021811) L-ascorbate peroxidase - like protein [Arabidopsis thaliana] >gi_4049334_emb_CAA22559.1_ (AL034567) L-ascorbate peroxidase-like protein [Arabidopsis thaliana]'		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o2.np	Method	AAT/NAP
Start	6912	End	8534
GI	6850314	Score	1022
Exons	6912..7320, 7416..7572, 8147..8534		
GI Descrip.	(AC009999) Contains similarity to a basic endochitinase from Arabidopsis thaliana gb AB023448, and contains a Chitinases class I PF 00182 domain. ESTs gb AI995747, gb AA728545, gb Z26222, gb Z25683, gb T88386, gb T1...		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o1.tc	Method	TBLASTX:Cress
Start	6917	End	8417
GI	none	Score	235
Exons	6917..7156, 6967..7236, 6972..7256, 6994..7266, 7239..7328, 7240..7281, 7415..7471, 7416..7472, 7469..7579, 7481..7567, 8145..8312, 8146..8289, 8307..8384, 8388..8417		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o1.ts	Method	TBLASTX:Soybean
Start	6918	End	8417
GI	none	Score	309
Exons	6918..6977, 6978..7328, 6979..7320, 7415..7471, 7425..7472, 7484..7567, 7489..7542, 7533..7562, 8145..8228, 8145..8312, 8146..8298, 8307..8384, 8329..8376, 8370..8417		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o1.tm	Method	TBLASTX:Maize
Start	6921	End	8423
GI	none	Score	141
Exons	6921..7328, 6936..7175, 6937..7287, 7230..7322, 7415..7567, 7416..7472, 7533..7571, 8145..8228, 8145..8312, 8149..8298, 8307..8423, 8308..8388		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o2.gp	Method	AAT/GAP
Start	7028	End	7578
GI	75699_1.R1084	Score	843
Exons	7028..7320, 7416..7578		
GI Descrip.	'1781042/emb CAA71402  1.0e-30 (Y10373) chitinase [Medicago truncatula]'		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78254	Strand	-
Start	1714	End	8534
Name	OJ991119_05.0207.C15.o3.gp	Method	AAT/GAP
Start	8199	End	8455
GI	none	Score	498
Exons	8199..8455		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78255	Strand	-
Start	10911	End	14436
Name	OJ991119_05.0207.C15.o2.tc	Method	TBLASTX:Cress
Start	10911	End	14234
GI	none	Score	140
Exons	10911..10997, 10912..11010, 11077..11142, 11079..11141, 12193..12297, 12207..12284, 12537..12692, 12546..12671, 12871..12948, 12940..12993, 13635..13769, 13636..13770, 13642..13806, 13875..14063, 13880..14065, 13901..14071, 14154..14234		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78255	Strand	-
Start	10911	End	14436
Name	OJ991119_05.0207.C15.o2.ts	Method	TBLASTX:Soybean
Start	10911	End	14234
GI	none	Score	133
Exons	10911..10994, 10912..11010, 11077..11142, 11079..11141,		

12193..12297, 12207..12284, 12533..12565, 12537..12695,  
 12537..12692, 12548..12697, 12580..12696, 12848..12955,  
 12861..12974, 12862..13002, 12895..12999, 13593..13769,  
 13600..13776, 13875..14063, 13880..14065, 14154..14234

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78255	Strand	
Start	10911	End	14436
Name	OJ991119_05.0207.C15.o3.tw	Method	TBLASTX:Wheat
Start	10911	End	12276
GI	none	Score	133
Exons	10911..11003, 10912..11010, 11077..11139, 11079..11141, 12195..12275, 12199..12276		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78255	Strand	
Start	10911	End	14436
Name	OJ991119_05.0207.C15.o2.tm	Method	TBLASTX:Maize
Start	10911	End	14418
GI	none	Score	126
Exons	10911..11003, 10912..10998, 10929..11003, 11077..11139, 11079..11141, 11091..11141, 12195..12284, 12199..12297, 12537..12698, 12540..12695, 12862..13002, 12866..12997, 13604..13705, 13605..13769, 13606..13776, 13606..13794, 13875..14063, 13880..14071, 13880..14062, 14152..14235, 14154..14234, 14158..14235, 14320..14418, 14321..14416		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78255	Strand	
Start	10911	End	14436
Name	OJ991119_05.0207.C15.o2.tw	Method	TBLASTX:Wheat
Start	13608	End	13922
GI	none	Score	98
Exons	13608..13769, 13608..13769, 13609..13776, 13869..13922, 13880..13921		

Seq. No.	38067	Seq. ID	OJ991119_05.0207.C15
Gene No.	78255	Strand	
Start	10911	End	14436
Name	OJ991119_05.0207.C15.o1.tw	Method	TBLASTX:Wheat
Start	13929	End	14436
GI	none	Score	182
Exons	13929..14060, 13930..14061, 13932..14063, 14154..14234, 14154..14234, 14155..14235, 14322..14411, 14323..14436, 14324..14434, 14395..14436		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78256	Strand	-
Start	1	End	156
Name	OJ991119_05.0207.C16.o1.gp	Method	AAT/GAP
Start	1	End	156
GI	uC-osrocyp010e04a1	Score	304
Exons	1..156		
GI Descrip.	'5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78257	Strand	-
Start	331	End	2987
Name	OJ991119_05.0207.C16.o1.gs	Method	GENSCAN
Start	331	End	1511
GI	none	Score	.77
Exons	331..413, 495..975, 999..1511		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78257	Strand	-
Start	331	End	2987
Name	OJ991119_05.0207.C16.o1.np	Method	AAT/NAP
Start	362	End	2615
GI	6862923	Score	386
Exons	362..474, 511..1431, 2569..2615		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78257	Strand	-
Start	331	End	2987
Name	OJ991119_05.0207.C16.o1.tm	Method	TBLASTX:Maize
Start	527	End	2586
GI	none	Score	94
Exons	527..757, 529..762, 814..972, 818..973, 984..1067, 1284..1430, 2515..2586		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78257	Strand	-
Start	331	End	2987
Name	OJ991119_05.0207.C16.o1.ts	Method	TBLASTX:Soybean
Start	529	End	2684
GI	none	Score	71
Exons	529..762, 557..757, 814..972, 821..967, 2515..2586, 2587..2667, 2592..2684		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78257	Strand	-
Start	331	End	2987
Name	OJ991119_05.0207.C16.o2.np	Method	AAT/NAP
Start	922	End	2925
GI	6006867	Score	122
Exons	922..1431, 2368..2477, 2810..2925		
GI Descrip.	(AC009540) unknown protein [Arabidopsis thaliana]		

Seq. No.	38068	Seq. ID	OJ991119_05.0207.C16
Gene No.	78257	Strand	-
Start	331	End	2987
Name	OJ991119_05.0207.C16.o2.gs	Method	GENSCAN
Start	2503	End	2987
GI	none	Score	.61
Exons	2503..2744, 2912..2987		

Seq. No.	38069	Seq. ID	OJ991119_05.0207.C17
Gene No.	78258	Strand	+
Start	1	End	3066
Name	OJ991119_05.0207.C17.o1.np	Method	AAT/NAP
Start	1	End	3066



GI 5441880 Score 2835  
 Exons 1..841, 1286..1317, 1576..1892, 2452..2601, 2707..3066  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 38069 Seq. ID OJ991119\_05.0207.C17  
 Gene No. 78258 Strand +  
 Start 1 End 3066  
 Name OJ991119\_05.0207.C17.o1.gs Method GENSCAN  
 Start 70 End 2094  
 GI none Score .72  
 Exons 70..2094

Seq. No. 38069 Seq. ID OJ991119\_05.0207.C17  
 Gene No. 78258 Strand +  
 Start 1 End 3066  
 Name OJ991119\_05.0207.C17.o1.tm Method TBLASTX:Maize  
 Start 397 End 993  
 GI none Score 93  
 Exons 397..525, 405..503, 559..858, 576..797, 922..993

Seq. No. 38069 Seq. ID OJ991119\_05.0207.C17  
 Gene No. 78258 Strand +  
 Start 1 End 3066  
 Name OJ991119\_05.0207.C17.o1.gp Method AAT/GAP  
 Start 440 End 871  
 GI 5701669 Score 849  
 Exons 440..871  
 GI Descrip. 5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 38069 Seq. ID OJ991119\_05.0207.C17  
 Gene No. 78258 Strand +  
 Start 1 End 3066  
 Name OJ991119\_05.0207.C17.o1.tw Method TBLASTX:Wheat  
 Start 691 End 1071  
 GI none Score 208  
 Exons 691..885, 700..897, 891..1010, 895..1071, 895..1041

Seq. No. 38069 Seq. ID OJ991119\_05.0207.C17  
 Gene No. 78258 Strand +  
 Start 1 End 3066  
 Name OJ991119\_05.0207.C17.o2.gs Method GENSCAN  
 Start 2453 End 2953  
 GI none Score .93  
 Exons 2453..2601, 2707..2953

Seq. No. 38070 Seq. ID OJ991119\_05.0207.C18  
 Gene No. 78259 Strand +  
 Start 1 End 4119  
 Name OJ991119\_05.0207.C18.o1.np Method AAT/NAP  
 Start 1 End 1792  
 GI 5441880 Score 1604  
 Exons 1..24, 89..387, 464..722, 967..1064, 1311..1442, 1558..1792  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the

predicted gene.; Similar to maize transposon MuDR mudrA protein.  
(AC003981) [Oryza sativa]

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78259	Strand	+
Start	1	End	4119
Name	OJ991119_05.0207.C18.o1.gs	Method	GENSCAN
Start	89	End	2071
GI	none	Score	.73
Exons	89..387, 464..722, 815..997, 1155..1210, 1311..1442, 1506..1553, 1573..1775, 1911..2071		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78259	Strand	+
Start	1	End	4119
Name	OJ991119_05.0207.C18.o1.gp	Method	AAT/GAP
Start	215	End	714
GI	LIB3475-007-P1-K1-G8	Score	781
Exons	215..387, 464..714		
GI Descrip.	'5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78259	Strand	+
Start	1	End	4119
Name	OJ991119_05.0207.C18.o2.gp	Method	AAT/GAP
Start	1896	End	3712
GI	LIB3431-045-P1-N1-A10	Score	822
Exons	1896..2240, 3604..3712		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78259	Strand	+
Start	1	End	4119
Name	OJ991119_05.0207.C18.o2.gs	Method	GENSCAN
Start	2298	End	4119
GI	none	Score	.7
Exons	2298..2300, 2484..2642, 3979..4119		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78260	Strand	+
Start	6348	End	6439
Name	OJ991119_05.0207.C18.o3.gp	Method	AAT/GAP
Start	6348	End	6439
GI	21474_1.R1084	Score	139
Exons	6348..6439		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78261	Strand	-
Start	5252	End	6393
Name	OJ991119_05.0207.C18.o2.np	Method	AAT/NAP
Start	5167	End	6393
GI	6862923	Score	332

Exons 5167..6393  
GI Descrip. (AC018907) unknown protein [Arabidopsis thaliana]

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78261	Strand	-
Start	5252	End	6393
Name	OJ991119_05.0207.C18.o3.gs	Method	GENSCAN
Start	5252	End	6331
GI	none	Score	.88
Exons	5252..6331		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o1.tm	Method	TBLASTX:Maize
Start	5279	End	5855
GI	none	Score	73
Exons	5279..5491, 5304..5471, 5588..5854, 5604..5855		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o1.ts	Method	TBLASTX:Soybean
Start	5279	End	5855
GI	none	Score	77
Exons	5279..5491, 5298..5486, 5600..5854, 5607..5855		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o1.tc	Method	TBLASTX:Cress
Start	5606	End	5855
GI	none	Score	98
Exons	5606..5854, 5697..5855		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o4.gs	Method	GENSCAN
Start	6768	End	10469
GI	none	Score	.78
Exons	6768..6953, 7033..7131, 7226..7298, 7383..7493, 7590..7763, 7873..8045, 8124..8352, 8474..8559, 8561..8706, 8832..8973, 9048..9167, 9213..9378, 9736..10115, 10134..10469		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o3.np	Method	AAT/NAP
Start	6786	End	10484
GI	4680204	Score	1021
Exons	6786..6923, 7274..7493, 7590..7763, 7873..8973, 9048..10484		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675

Name	OJ991119_05.0207.C18.o2.tw	Method	TBLASTX:Wheat
Start	7424	End	7931
GI	none	Score	68
Exons	7424..7495, 7595..7777, 7602..7727, 7866..7931		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o6.np	Method	AAT/NAP
Start	8840	End	10484
GI	4680204	Score	763
Exons	8840..8973, 9048..10484		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o1.tw	Method	TBLASTX:Wheat
Start	9438	End	9841
GI	none	Score	42
Exons	9438..9533, 9438..9608, 9571..9738, 9603..9839, 9690..9839, 9701..9841, 9731..9841		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o5.np	Method	AAT/NAP
Start	9987	End	11675
GI	3845248	Score	89
Exons	9987..10033, 11388..11675		
GI Descrip.	(AE001410) hypothetical protein [Plasmodium falciparum]		

Seq. No.	38070	Seq. ID	OJ991119_05.0207.C18
Gene No.	78262	Strand	-
Start	6768	End	11675
Name	OJ991119_05.0207.C18.o4.gp	Method	AAT/GAP
Start	11276	End	11376
GI	LIB3477-003-P1-K1-E9	Score	161
Exons	11276..11376		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78263	Strand	+
Start	868	End	1285
Name	OJ991119_05.0207.C19.o4.gp	Method	AAT/GAP
Start	868	End	1285
GI	LIB3431-028-P1-N1-A10	Score	828
Exons	868..1285		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o1.gp	Method	AAT/GAP

Start	8	End	1989
GI	342_1.R1084	Score	3048
Exons	8..514, 624..721, 804..823, 859..1989		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o6.gp	Method	AAT/GAP
Start	142	End	1989
GI	342_1.R1084	Score	2819
Exons	142..514, 624..721, 804..823, 859..1989		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o5.gp	Method	AAT/GAP
Start	144	End	1989
GI	342_1.R1084	Score	2815
Exons	144..514, 624..721, 804..823, 859..1989		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o1.np	Method	AAT/NAP
Start	925	End	1903
GI	4680203	Score	960
Exons	925..1903		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o1.gs	Method	GENSCAN
Start	931	End	1962
GI	none	Score	.56
Exons	931..1962		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o1.tw	Method	TBLASTX:Wheat
Start	979	End	1989
GI	none	Score	52
Exons	979..1071, 980..1045, 1060..1140, 1077..1148, 1145..1225, 1153..1293, 1154..1294, 1241..1336, 1273..1332, 1339..1383, 1344..1379, 1378..1989, 1393..1710, 1667..1987, 1807..1989		

Seq. No.	38071	Seq. ID	OJ991119_05.0207.C19
Gene No.	78264	Strand	-
Start	8	End	1989
Name	OJ991119_05.0207.C19.o1.tc	Method	TBLASTX:Cress

Start	1561	End	1989
GI	none	Score	82
Exons	1561..1710, 1561..1989, 1667..1987, 1807..1989		

Seq. No.	38072	Seq. ID	OJ991119_05.0207.C23
Gene No.	78265	Strand	+
Start	1	End	306
Name	OJ991119_05.0207.C23.o1.np	Method	AAT/NAP
Start	1	End	306
GI	6862923	Score	207
Exons	1..306		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	38072	Seq. ID	OJ991119_05.0207.C23
Gene No.	78265	Strand	+
Start	1	End	306
Name	OJ991119_05.0207.C23.o1.tm	Method	TBLASTX:Maize
Start	37	End	288
GI	none	Score	214
Exons	37..288, 42..272		

Seq. No.	38072	Seq. ID	OJ991119_05.0207.C23
Gene No.	78265	Strand	+
Start	1	End	306
Name	OJ991119_05.0207.C23.o1.ts	Method	TBLASTX:Soybean
Start	37	End	288
GI	none	Score	206
Exons	37..288, 42..242		

Seq. No.	38072	Seq. ID	OJ991119_05.0207.C23
Gene No.	78265	Strand	+
Start	1	End	306
Name	OJ991119_05.0207.C23.o1.gs	Method	GENSCAN
Start	88	End	225
GI	none	Score	.41
Exons	88..225		

Seq. No.	38073	Seq. ID	OJ991119_05.0207.C24
Gene No.	78266	Strand	+
Start	41	End	1506
Name	OJ991119_05.0207.C24.o1.gs	Method	GENSCAN
Start	41	End	1486
GI	none	Score	.94
Exons	41..141, 769..943, 970..1486		

Seq. No.	38073	Seq. ID	OJ991119_05.0207.C24
Gene No.	78266	Strand	+
Start	41	End	1506
Name	OJ991119_05.0207.C24.o1.np	Method	AAT/NAP
Start	708	End	1506
GI	6862923	Score	332
Exons	708..1506		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	38073	Seq. ID	OJ991119_05.0207.C24
Gene No.	78266	Strand	+
Start	41	End	1506

Name	OJ991119_05.0207.C24.ol.tm	Method	TBLASTX:Maize
Start	719	End	1481
GI	none	Score	72
Exons	719..925, 1213..1473, 1278..1481		
Seq. No.	38073	Seq. ID	OJ991119_05.0207.C24
Gene No.	78266	Strand	+
Start	41	End	1506
Name	OJ991119_05.0207.C24.ol.ts	Method	TBLASTX:Soybean
Start	1212	End	1473
GI	none	Score	237
Exons	1212..1445, 1213..1473		
Seq. No.	38073	Seq. ID	OJ991119_05.0207.C24
Gene No.	78266	Strand	+
Start	41	End	1506
Name	OJ991119_05.0207.C24.ol.tc	Method	TBLASTX:Cress
Start	1216	End	1475
GI	none	Score	232
Exons	1216..1473, 1222..1371, 1281..1475		
Seq. No.	38074	Seq. ID	OJ991119_05.0207.C25
Gene No.	78267	Strand	+
Start	1	End	848
Name	OJ991119_05.0207.C25.ol.np	Method	AAT/NAP
Start	1	End	848
GI	6862923	Score	142
Exons	1..239, 744..848		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		
Seq. No.	38075	Seq. ID	OJ991119_05.0207.C26
Gene No.	78268	Strand	-
Start	453	End	1511
Name	OJ991119_05.0207.C26.ol.gs	Method	GENSCAN
Start	453	End	1511
GI	none	Score	.53
Exons	453..561, 1400..1511		
Seq. No.	38075	Seq. ID	OJ991119_05.0207.C26
Gene No.	78268	Strand	-
Start	453	End	1511
Name	OJ991119_05.0207.C26.ol.gp	Method	AAT/GAP
Start	504	End	1511
GI	LIB3474-004-P1-K1-B9	Score	288
Exons	504..561, 1400..1511		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		
Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78269	Strand	+
Start	1	End	1903
Name	OJ991119_05.0207.C27.ol.np	Method	AAT/NAP
Start	1	End	1897
GI	4680501	Score	293
Exons	1..24, 1343..1897		
GI Descrip.	(AF119222) hypothetical protein [Oryza sativa]		

Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78269	Strand	+
Start	1	End	1903
Name	OJ991119_05.0207.C27.o1.gs	Method	GENSCAN
Start	1151	End	1903
GI	none	Score	.82
Exons	1151..1424, 1459..1903		

Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78270	Strand	+
Start	2903	End	11044
Name	OJ991119_05.0207.C27.o1.tm	Method	TBLASTX:Maize
Start	1216	End	10810
GI	none	Score	84
Exons	1216..1326, 1375..1584, 1379..1573, 1628..1897, 1720..1878, 3225..3443, 3251..3433, 3765..3836, 3870..3944, 3996..4238, 8695..8868, 8699..8872, 8960..9166, 10405..10671, 10406..10669, 10685..10810, 10756..10809		

Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78270	Strand	+
Start	2903	End	11044
Name	OJ991119_05.0207.C27.o1.ts	Method	TBLASTX:Soybean
Start	1378	End	10810
GI	none	Score	190
Exons	1378..1575, 1379..1573, 1628..1897, 3765..3836, 3873..3944, 3978..4238, 8687..8872, 8695..8865, 8960..9166, 10414..10662, 10496..10669, 10685..10810, 10741..10809		

Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78270	Strand	+
Start	2903	End	11044
Name	OJ991119_05.0207.C27.o1.tc	Method	TBLASTX:Cress
Start	1381	End	10669
GI	none	Score	188
Exons	1381..1473, 1382..1573, 3690..3758, 3765..3836, 3870..3944, 8663..8866, 8680..8853, 10405..10662, 10406..10669		

Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78270	Strand	+
Start	2903	End	11044
Name	OJ991119_05.0207.C27.o2.np	Method	AAT/NAP
Start	2903	End	10355
GI	2642158	Score	379
Exons	2903..2996, 3220..3575, 3636..3746, 8696..9166, 10212..10355		
GI Descrip.	(AC003000) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38076	Seq. ID	OJ991119_05.0207.C27
Gene No.	78270	Strand	+
Start	2903	End	11044
Name	OJ991119_05.0207.C27.o3.np	Method	AAT/NAP
Start	9016	End	11044
GI	6862923	Score	317
Exons	9016..9088, 9963..11044		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	38077	Seq. ID	OJ991109_04.0207.C1
----------	-------	---------	---------------------



Gene No.	78271	Strand	-
Start	136	End	5121
Name	OJ991109_04.0207.C1.o1.np	Method	AAT/NAP
Start	136	End	3440
GI	6907089	Score	4104
Exons	136..2080, 2180..3440		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38077	Seq. ID	OJ991109_04.0207.C1
Gene No.	78271	Strand	-
Start	136	End	5121
Name	OJ991109_04.0207.C1.o1.gs	Method	GENSCAN
Start	256	End	3440
GI	none	Score	.49
Exons	256..2080, 2180..2289, 2538..3440		

Seq. No.	38077	Seq. ID	OJ991109_04.0207.C1
Gene No.	78271	Strand	-
Start	136	End	5121
Name	OJ991109_04.0207.C1.o2.np	Method	AAT/NAP
Start	2675	End	5121
GI	5922623	Score	269
Exons	2675..2696, 4282..4357, 4525..4683, 5041..5121		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78272	Strand	+
Start	2101	End	5906
Name	OJ991109_04.0207.C2.o1.np	Method	AAT/NAP
Start	2101	End	5906
GI	6630696	Score	5989
Exons	2101..5906		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78272	Strand	+
Start	2101	End	5906
Name	OJ991109_04.0207.C2.o1.gs	Method	GENSCAN
Start	2249	End	3108
GI	none	Score	.84
Exons	2249..2849, 2960..3108		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78273	Strand	+
Start	16466	End	24490
Name	OJ991109_04.0207.C2.o5.gs	Method	GENSCAN
Start	16466	End	24490
GI	none	Score	.58
Exons	16466..16513, 17041..17170, 20052..20117, 20273..20396, 20526..20697, 21053..21400, 21416..21956, 22045..22225, 22248..22680, 22724..22945, 23048..23339, 23553..23776, 24053..24490		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78274	Strand	-
Start	8064	End	10878
Name	OJ991109_04.0207.C2.o3.gs	Method	GENSCAN
Start	8064	End	10878
GI	none	Score	.65
Exons	8064..8205, 8627..8792, 8935..9110, 9574..9653, 9982..10020, 10403..10442, 10769..10878		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78275	Strand	-
Start	12506	End	15249
Name	OJ991109_04.0207.C2.o2.np	Method	AAT/NAP
Start	12492	End	15249
GI	1171577	Score	726
Exons	12492..13202, 13266..13498, 14767..15249		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78275	Strand	-
Start	12506	End	15249
Name	OJ991109_04.0207.C2.o4.gs	Method	GENSCAN
Start	12506	End	15231
GI	none	Score	.95
Exons	12506..13498, 14767..15231		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o6.tw	Method	TBLASTX:Wheat
Start	2017	End	2393
GI	none	Score	96
Exons	2017..2127, 2107..2244, 2255..2392, 2257..2373, 2261..2392, 2265..2393		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o8.tm	Method	TBLASTX:Maize
Start	2257	End	2452
GI	none	Score	229
Exons	2257..2373, 2258..2452, 2258..2449		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o2.tm	Method	TBLASTX:Maize
Start	2936	End	3343
GI	none	Score	333
Exons	2936..3286, 2959..3231, 2960..3247, 3278..3343		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o7.tm	Method	TBLASTX:Maize
Start	3461	End	3874
GI	none	Score	254

Exons 3461..3874, 3712..3801

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o9.tw	Method	TBLASTX:Wheat
Start	3538	End	3730
GI	none	Score	247
Exons	3538..3729, 3539..3730		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o6.ts	Method	TBLASTX:Soybean
Start	3683	End	4082
GI	none	Score	166
Exons	3683..3877, 3685..3873, 3909..4082		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o1.tw	Method	TBLASTX:Wheat
Start	3731	End	4487
GI	none	Score	202
Exons	3731..3874, 3739..3861, 3854..4201, 3876..3935, 3877..4248, 3878..4198, 3879..4487, 3954..4244, 4296..4487		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o1.ts	Method	TBLASTX:Soybean
Start	4422	End	4874
GI	5509260	Score	325
Exons	4422..4874, 4502..4663, 4694..4723		
GI Descrip.	-		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o1.tc	Method	TBLASTX:Cress
Start	4500	End	4751
GI	none	Score	275
Exons	4500..4751, 4502..4672		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o5.tm	Method	TBLASTX:Maize
Start	4541	End	5006
GI	none	Score	317
Exons	4541..4672, 4542..5006, 4677..4757, 4796..4903		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o4.tw	Method	TBLASTX:Wheat
Start	4542	End	5294

GI	none	Score	278
Exons	4542..4886, 4559..4723, 4796..4837, 4881..5087, 4928..4981, 5100..5216, 5241..5294		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o4.ts	Method	TBLASTX:Soybean
Start	4940	End	5288
GI	none	Score	152
Exons	4940..4987, 4941..5102, 5103..5288, 5105..5287		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o6.tm	Method	TBLASTX:Maize
Start	5091	End	5439
GI	none	Score	287
Exons	5091..5438, 5129..5437, 5197..5439		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o7.ts	Method	TBLASTX:Soybean
Start	5289	End	5657
GI	none	Score	82
Exons	5289..5408, 5433..5657		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o2.tw	Method	TBLASTX:Wheat
Start	5295	End	5770
GI	none	Score	90
Exons	5295..5369, 5300..5368, 5384..5770, 5391..5765		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o11.tw	Method	TBLASTX:Wheat
Start	6255	End	6581
GI	none	Score	83
Exons	6255..6350, 6256..6351, 6281..6352, 6352..6429, 6354..6422, 6355..6429, 6416..6529, 6428..6541, 6438..6545, 6537..6581		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o5.ts	Method	TBLASTX:Soybean
Start	12527	End	13171
GI	none	Score	147
Exons	12527..12733, 12812..12976, 12974..13171		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o9.tm	Method	TBLASTX:Maize

Start	12842	End	14955
GI	none	Score	103
Exons	12842..12973, 12998..13141, 13129..13185, 13298..13498, 13347..13496, 14869..14955		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o2.ts	Method	TBLASTX:Soybean
Start	13412	End	15225
GI	none	Score	131
Exons	13412..13498, 14761..14952, 14968..15006, 15088..15225		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o3.np	Method	AAT/NAP
Start	25119	End	28417
GI	4206306	Score	2697
Exons	25119..28417		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o12.tw	Method	TBLASTX:Wheat
Start	25128	End	25723
GI	none	Score	99
Exons	25128..25253, 25445..25576, 25604..25723		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o6.gs	Method	GENSCAN
Start	25304	End	28253
GI	none	Score	.64
Exons	25304..26119, 26210..26795, 26964..27892, 27984..28253		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o11.tm	Method	TBLASTX:Maize
Start	25436	End	25678
GI	none	Score	195
Exons	25436..25678		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o8.ts	Method	TBLASTX:Soybean
Start	25694	End	26068
GI	none	Score	88
Exons	25694..25918, 25925..26068		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417

Name	OJ991109_04.0207.C2.o4.tm	Method	TBLASTX:Maize
Start	25709	End	26071
GI	none	Score	98
Exons	25709..26071, 25721..25885, 25761..25979		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o8.tw	Method	TBLASTX:Wheat
Start	25841	End	26230
GI	none	Score	251
Exons	25841..26230		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o10.tm	Method	TBLASTX:Maize
Start	26072	End	26338
GI	none	Score	73
Exons	26072..26338, 26073..26213		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o5.tw	Method	TBLASTX:Wheat
Start	26540	End	26972
GI	none	Score	205
Exons	26540..26971, 26541..26972		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o13.tw	Method	TBLASTX:Wheat
Start	26972	End	27181
GI	none	Score	87
Exons	26972..27178, 26976..27164, 27026..27181		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o3.ts	Method	TBLASTX:Soybean
Start	27222	End	27622
GI	none	Score	61
Exons	27222..27314, 27239..27622, 27429..27569		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o10.tw	Method	TBLASTX:Wheat
Start	27248	End	27463
GI	none	Score	72
Exons	27248..27463, 27354..27458		
Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o1.tm	Method	TBLASTX:Maize

Start	27341	End	27724
GI	none	Score	225
Exons	27341..27724, 27354..27683, 27389..27703		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o3.tw	Method	TBLASTX:Wheat
Start	27464	End	27883
GI	none	Score	152
Exons	27464..27883, 27465..27677, 27467..27871, 27714..27881		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o3.tm	Method	TBLASTX:Maize
Start	27752	End	28101
GI	none	Score	104
Exons	27752..27922, 27753..27926, 27930..28058, 27930..28100, 27934..28101		

Seq. No.	38078	Seq. ID	OJ991109_04.0207.C2
Gene No.	78276	Strand	-
Start	25304	End	28417
Name	OJ991109_04.0207.C2.o7.tw	Method	TBLASTX:Wheat
Start	27884	End	28229
GI	none	Score	49
Exons	27884..27922, 27885..27923, 27910..28080, 27930..28229, 27937..28179		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78277	Strand	+
Start	9475	End	12399
Name	OJ991109_04.0207.C3.o2.gs	Method	GENSCAN
Start	9475	End	12292
GI	none	Score	.9
Exons	9475..10359, 10505..10760, 10955..11170, 11320..11435, 11510..11699, 11949..12292		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78277	Strand	+
Start	9475	End	12399
Name	OJ991109_04.0207.C3.o3.np	Method	AAT/NAP
Start	9475	End	12399
GI	6691716	Score	2484

Exons	9475..10382, 10573..10734, 10817..10917, 10985..11170, 11248..11435, 11510..11610, 11760..11875, 11949..12399		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78278	Strand	-
Start	2609	End	2990
Name	OJ991109_04.0207.C3.o1.gp	Method	AAT/GAP
Start	2609	End	2990
GI	uC-osflcyp033a04b1	Score	659

Exons 2609..2990  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 38079 Seq. ID OJ991109\_04.0207.C3  
Gene No. 78279 Strand -  
Start 3455 End 5180  
Name OJ991109\_04.0207.C3.o2.np Method AAT/NAP  
Start 3455 End 5180  
GI 6907087 Score 847  
Exons 3455..3556, 4095..5180  
GI Descrip. (AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 38079 Seq. ID OJ991109\_04.0207.C3  
Gene No. 78280 Strand -  
Start 12978 End 18782  
Name OJ991109\_04.0207.C3.o1.tw Method TBLASTX:Wheat  
Start 17 End 16510  
GI none Score 113  
Exons 17..187, 242..367, 15725..16018, 15729..15866, 16067..16297, 16101..16301, 16346..16510

Seq. No. 38079 Seq. ID OJ991109\_04.0207.C3  
Gene No. 78280 Strand -  
Start 12978 End 18782  
Name OJ991109\_04.0207.C3.o10.tw Method TBLASTX:Wheat  
Start 1025 End 17332  
GI none Score 183  
Exons 1025..1348, 16997..17332

Seq. No. 38079 Seq. ID OJ991109\_04.0207.C3  
Gene No. 78280 Strand -  
Start 12978 End 18782  
Name OJ991109\_04.0207.C3.o9.tw Method TBLASTX:Wheat  
Start 9598 End 9885  
GI none Score 204  
Exons 9598..9885

Seq. No. 38079 Seq. ID OJ991109\_04.0207.C3  
Gene No. 78280 Strand -  
Start 12978 End 18782  
Name OJ991109\_04.0207.C3.o3.tw Method TBLASTX:Wheat  
Start 12709 End 13319  
GI none Score 85  
Exons 12709..12822, 12828..13319, 13057..13164, 13213..13299

Seq. No. 38079 Seq. ID OJ991109\_04.0207.C3  
Gene No. 78280 Strand -  
Start 12978 End 18782  
Name OJ991109\_04.0207.C3.o4.np Method AAT/NAP  
Start 12730 End 18782  
GI 5922631 Score 5416  
Exons 12730..15255, 15862..16788, 16915..17065, 17108..17362, 18762..18782  
GI Descrip. (AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a



region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o4.tm	Method	TBLASTX:Maize
Start	12745	End	12998
GI	none	Score	85
Exons	12745..12822, 12746..12823, 12825..12998, 12826..12951		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o3.gs	Method	GENSCAN
Start	12978	End	17337
GI	none	Score	.56
Exons	12978..13657, 13675..14205, 14446..14631, 14782..15697, 16076..16924, 16953..17116, 17217..17337		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o3.tm	Method	TBLASTX:Maize
Start	13288	End	13671
GI	none	Score	81
Exons	13288..13407, 13290..13403, 13398..13664, 13423..13671		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o5.tw	Method	TBLASTX:Wheat
Start	13434	End	13819
GI	none	Score	78
Exons	13434..13565, 13434..13673, 13508..13678, 13510..13668, 13661..13819, 13662..13811		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o6.tw	Method	TBLASTX:Wheat
Start	13988	End	14278
GI	none	Score	108
Exons	13988..14278, 14103..14270		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o2.ts	Method	TBLASTX:Soybean
Start	14183	End	14569
GI	none	Score	105
Exons	14183..14419, 14199..14429, 14465..14569, 14466..14561		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o4.tw	Method	TBLASTX:Wheat
Start	14279	End	14687
GI	none	Score	112
Exons	14279..14422, 14280..14420, 14456..14686, 14457..14687, 14490..14687		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o7.tw	Method	TBLASTX:Wheat
Start	14696	End	15026
GI	none	Score	92
Exons	14696..15022, 14835..15026		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o1.ts	Method	TBLASTX:Soybean
Start	14829	End	15226
GI	none	Score	63
Exons	14829..14999, 14840..15226, 15036..15179		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o2.tm	Method	TBLASTX:Maize
Start	14948	End	15331
GI	none	Score	166
Exons	14948..15331, 14949..15293		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o2.tw	Method	TBLASTX:Wheat
Start	15071	End	15490
GI	none	Score	219
Exons	15071..15490, 15072..15488		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o1.tm	Method	TBLASTX:Maize
Start	15359	End	15715
GI	none	Score	199
Exons	15359..15715, 15369..15674		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o3.ts	Method	TBLASTX:Soybean
Start	15440	End	15805
GI	none	Score	131
Exons	15440..15574, 15581..15805		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o8.tw	Method	TBLASTX:Wheat
Start	15490	End	15724
GI	none	Score	141
Exons	15490..15681, 15491..15724, 15491..15724		

Seq. No.	38079	Seq. ID	OJ991109_04.0207.C3
Gene No.	78280	Strand	-
Start	12978	End	18782
Name	OJ991109_04.0207.C3.o5.np	Method	AAT/NAP
Start	18032	End	18204
GI	6063554	Score	97
Exons	18032..18204		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78281	Strand	+
Start	324	End	1348
Name	OJ991109_04.0207.C4.o1.gs	Method	GENSCAN
Start	324	End	1348
GI	none	Score	.98
Exons	324..907, 938..1079, 1223..1348		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78282	Strand	+
Start	10745	End	13225
Name	OJ991109_04.0207.C4.o1.gp	Method	AAT/GAP
Start	10745	End	13225
GI	none	Score	941
Exons	10745..10915, 11691..11777, 12979..13225		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78283	Strand	+
Start	20354	End	29392
Name	OJ991109_04.0207.C4.o3.gs	Method	GENSCAN
Start	20354	End	29392
GI	none	Score	.75
Exons	20354..20382, 20473..22467, 22789..23094, 23171..23267, 23349..24022, 24079..24140, 24170..24378, 24457..24601, 24689..24957, 25034..25237, 25312..25404, 25481..25579, 25653..26009, 26121..26276, 26439..26675, 27767..27910, 29240..29392		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78283	Strand	+
Start	20354	End	29392
Name	OJ991109_04.0207.C4.o3.np	Method	AAT/NAP
Start	20434	End	22918
GI	5911167	Score	1636
Exons	20434..22700, 22789..22918		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
----------	-------	---------	---------------------

Gene No.	78283	Strand	+
Start	20354	End	29392
Name	OJ991109_04.0207.C4.o4.np	Method	AAT/NAP
Start	23151	End	25183
GI	5732031	Score	254
Exons	23151..23270, 23349..23876, 25124..25183		
GI Descrip.	(AF147260) No definition line found [Arabidopsis thaliana]		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78283	Strand	+
Start	20354	End	29392
Name	OJ991109_04.0207.C4.o2.gp	Method	AAT/GAP
Start	24159	End	24731
GI	none	Score	705
Exons	24159..24378, 24457..24601, 24692..24731		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78283	Strand	+
Start	20354	End	29392
Name	OJ991109_04.0207.C4.o3.gp	Method	AAT/GAP
Start	25835	End	26463
GI	none	Score	735
Exons	25835..26009, 26121..26341, 26439..26463		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78284	Strand	-
Start	916	End	21259
Name	OJ991109_04.0207.C4.o2.np	Method	AAT/NAP
Start	916	End	21259
GI	5042463	Score	288
Exons	916..1025, 2309..2451, 6206..6327, 6373..6509, 7209..7423, 15196..15292, 18348..18403, 21197..21259		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78284	Strand	-
Start	916	End	21259
Name	OJ991109_04.0207.C4.o2.gs	Method	GENSCAN
Start	1571	End	19628
GI	none	Score	.63
Exons	1571..2619, 2724..3019, 4716..4899, 5331..5437, 6246..6327, 7514..7619, 7951..8072, 8648..8845, 10588..10687, 10740..11039, 11092..11221, 11719..11814, 14694..14954, 15729..16041, 16065..16248, 16407..16516, 17355..17531, 17939..18074, 19165..19277, 19430..19628		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78284	Strand	-
Start	916	End	21259
Name	OJ991109_04.0207.C4.o1.np	Method	AAT/NAP
Start	1600	End	3063
GI	5902444	Score	1884
Exons	1600..3063		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78285	Strand	-

Start	28394	End	32610
Name	OJ991109_04.0207.C4.o4.gp	Method	AAT/GAP
Start	28394	End	29027
GI	uC-osflcyp115g07a1	Score	794
Exons	28394..28649, 28731..28817, 28905..29027		
GI Descrip.	'1402878/emb CAA66809  6.0e-11 (X98130) unknown [Arabidopsis thaliana]'		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78285	Strand	-
Start	28394	End	32610
Name	OJ991109_04.0207.C4.o5.np	Method	AAT/NAP
Start	28599	End	32579
GI	5668808	Score	886
Exons	28599..28649, 28731..28822, 28910..29023, 29142..29380, 31034..31090, 31199..31285, 31759..32303, 32407..32579		
GI Descrip.	(AC007519) F16N3.20 [Arabidopsis thaliana]		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78285	Strand	-
Start	28394	End	32610
Name	OJ991109_04.0207.C4.o4.gs	Method	GENSCAN
Start	30038	End	31068
GI	none	Score	.92
Exons	30038..30242, 31034..31068		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78285	Strand	-
Start	28394	End	32610
Name	OJ991109_04.0207.C4.o5.gs	Method	GENSCAN
Start	31665	End	32610
GI	none	Score	.55
Exons	31665..32219, 32293..32610		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o2.ts	Method	TBLASTX:Soybean
Start	20843	End	21160
GI	none	Score	236
Exons	20843..21160, 20938..21150		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o2.tw	Method	TBLASTX:Wheat
Start	20891	End	21436
GI	none	Score	152
Exons	20891..21175, 20983..21141, 21185..21304, 21308..21436		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o2.tc	Method	TBLASTX:Cress
Start	21200	End	21532
GI	none	Score	303
Exons	21200..21532, 21202..21348, 21347..21514		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o1.tm	Method	TBLASTX:Maize
Start	21298	End	21565
GI	none	Score	410
Exons	21298..21564, 21299..21565		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o6.tm	Method	TBLASTX:Maize
Start	22025	End	22232
GI	none	Score	206
Exons	22025..22231, 22031..22222, 22062..22232		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o4.tm	Method	TBLASTX:Maize
Start	22256	End	22706
GI	none	Score	111
Exons	22256..22465, 22399..22701, 22557..22706		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o1.tw	Method	TBLASTX:Wheat
Start	22399	End	23804
GI	none	Score	221
Exons	22399..22701, 22425..22700, 22787..22912, 23015..23092, 23376..23522, 23604..23657, 23691..23726, 23748..23804		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o5.tm	Method	TBLASTX:Maize
Start	25727	End	26003
GI	none	Score	82
Exons	25727..25840, 25729..25857, 25731..25949, 25731..25946, 25926..26000, 25932..26003, 25939..26001		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o7.tm	Method	TBLASTX:Maize
Start	26438	End	26674
GI	none	Score	191
Exons	26438..26674, 26439..26663		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o1.ts	Method	TBLASTX:Soybean
Start	28728	End	32595
GI	none	Score	65

Exons 28728..28820, 28729..28818, 28914..29051, 28930..29025,  
29137..29397, 29252..29383, 31039..31107, 31201..31293,  
31761..31925, 32019..32141, 32035..32118, 32139..32300,  
32149..32304, 32404..32595

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o3.tm	Method	TBLASTX:Maize
Start	28728	End	29383
GI	none	Score	120
Exons	28728..28820, 28911..29027, 28912..29025, 29137..29382, 29141..29188, 29285..29383		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o1.tc	Method	TBLASTX:Cress
Start	28731	End	32598
GI	none	Score	54
Exons	28731..28817, 28738..28818, 28897..29031, 28905..29051, 28912..29025, 29137..29385, 29258..29383, 31156..31293, 31761..31946, 32139..32300, 32143..32304, 32404..32598		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o2.tm	Method	TBLASTX:Maize
Start	32181	End	32623
GI	none	Score	153
Exons	32181..32303, 32182..32304, 32407..32595, 32408..32593, 32540..32623		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o6.gs	Method	GENSCAN
Start	35529	End	36116
GI	none	Score	.63
Exons	35529..35676, 35749..36116		

Seq. No.	38080	Seq. ID	OJ991109_04.0207.C4
Gene No.	78286	Strand	-
Start	35529	End	36116
Name	OJ991109_04.0207.C4.o6.np	Method	AAT/NAP
Start	35645	End	35972
GI	5803252	Score	85
Exons	35645..35795, 35844..35972		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	38081	Seq. ID	OJ991109_04.0207.C5
Gene No.	78287	Strand	+
Start	477	End	721
Name	OJ991109_04.0207.C5.o1.gs	Method	GENSCAN
Start	477	End	721
GI	none	Score	.95
Exons	477..599, 713..721		

Seq. No.	38081	Seq. ID	OJ991109_04.0207.C5
Gene No.	78288	Strand	-
Start	1	End	2753
Name	OJ991109_04.0207.C5.o1.np	Method	AAT/NAP
Start	1	End	686
GI	4388825	Score	97
Exons	1..19, 510..686		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38081	Seq. ID	OJ991109_04.0207.C5
Gene No.	78288	Strand	-
Start	1	End	2753
Name	OJ991109_04.0207.C5.o2.np	Method	AAT/NAP
Start	1	End	2753
GI	5042454	Score	88
Exons	1..35, 2664..2753		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	38082	Seq. ID	OJ991029_05.0204.C1
Gene No.	78289	Strand	-
Start	1	End	1271
Name	OJ991029_05.0204.C1.o1.np	Method	AAT/NAP
Start	1	End	1271
GI	5902444	Score	1468
Exons	1..1271		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	38082	Seq. ID	OJ991029_05.0204.C1
Gene No.	78289	Strand	-
Start	1	End	1271
Name	OJ991029_05.0204.C1.o1.tw	Method	TBLASTX:Wheat
Start	71	End	527
GI	none	Score	126
Exons	71..307, 73..309, 355..474, 367..465, 477..527		

Seq. No.	38083	Seq. ID	OJ991029_05.0204.C4
Gene No.	78290	Strand	+
Start	106	End	1045
Name	OJ991029_05.0204.C4.o1.gp	Method	AAT/GAP
Start	106	End	1045
GI	2310235	Score	304
Exons	106..143, 554..693, 984..1045		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265): zhb0012.1 [Oryza sativa]		

Seq. No.	38083	Seq. ID	OJ991029_05.0204.C4
Gene No.	78290	Strand	+
Start	106	End	1045
Name	OJ991029_05.0204.C4.o1.gs	Method	GENSCAN
Start	554	End	1013
GI	none	Score	.87
Exons	554..1013		

Seq. No.	38083	Seq. ID	OJ991029_05.0204.C4
Gene No.	78290	Strand	+



Start	106	End	1045
Name	OJ991029_05.0204.C4.o1.np	Method	AAT/NAP
Start	554	End	883
GI	5852182	Score	433
Exons	554..883		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	38084	Seq. ID	OJ991029_05.0204.C5
Gene No.	78291	Strand	+
Start	1	End	305
Name	OJ991029_05.0204.C5.o1.np	Method	AAT/NAP
Start	1	End	305
GI	4416302	Score	326
Exons	1..305		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	38084	Seq. ID	OJ991029_05.0204.C5
Gene No.	78291	Strand	+
Start	1	End	305
Name	OJ991029_05.0204.C5.o1.tm	Method	TBLASTX:Maize
Start	1	End	305
GI	none	Score	218
Exons	1..180, 12..179, 186..305, 188..301		

Seq. No.	38084	Seq. ID	OJ991029_05.0204.C5
Gene No.	78291	Strand	+
Start	1	End	305
Name	OJ991029_05.0204.C5.o1.tw	Method	TBLASTX:Wheat
Start	4	End	180
GI	none	Score	190
Exons	4..180, 12..179		

Seq. No.	38085	Seq. ID	OJ991029_05.0204.C10
Gene No.	78292	Strand	-
Start	18	End	413
Name	OJ991029_05.0204.C10.o1.gs	Method	GENSCAN
Start	18	End	413
GI	none	Score	.97
Exons	18..122, 329..413		

Seq. No.	38086	Seq. ID	OJ991029_05.0204.C11
Gene No.	78293	Strand	+
Start	359	End	558
Name	OJ991029_05.0204.C11.o1.gs	Method	GENSCAN
Start	359	End	558
GI	none	Score	.7
Exons	359..558		

Seq. No.	38087	Seq. ID	OJ991029_05.0204.C14
Gene No.	78294	Strand	-
Start	307	End	630
Name	OJ991029_05.0204.C14.o1.gs	Method	GENSCAN
Start	307	End	630
GI	none	Score	.8
Exons	307..370, 530..630		

Seq. No.	38088	Seq. ID	OJ991029_05.0204.C17
----------	-------	---------	----------------------

Gene No.	78295	Strand	+
Start	194	End	348
Name	OJ991029_05.0204.C17.o1.gs	Method	GENSCAN
Start	194	End	348
GI	none	Score	.54
Exons	194..348		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o1.gs	Method	GENSCAN
Start	461	End	9067
GI	none	Score	.84
Exons	461..673, 949..993, 1667..1841, 2413..2676, 3970..4370, 4662..4808, 4889..6952, 7329..7482, 8796..9067		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o1.np	Method	AAT/NAP
Start	3604	End	11519
GI	2244793	Score	2181
Exons	3604..3715, 3970..4096, 4127..4370, 4662..4808, 4889..5541, 5587..6571, 6623..6860, 7233..7445, 7544..7630, 8059..8221, 11492..11519		

GI Descrip. (Z97336) disease resistance N like protein [Arabidopsis thaliana]

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o3.tm	Method	TBLASTX:Maize
Start	4664	End	5224
GI	none	Score	97
Exons	4664..4810, 4665..4811, 4666..4815, 4865..4969, 4887..4970, 4889..4978, 5025..5051, 5054..5101, 5090..5179, 5090..5170, 5174..5221, 5174..5224		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o2.ts	Method	TBLASTX:Soybean
Start	5177	End	5524
GI	none	Score	177
Exons	5177..5335, 5331..5522, 5355..5501, 5357..5524, 5357..5524		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o2.tm	Method	TBLASTX:Maize
Start	5346	End	5557
GI	none	Score	237
Exons	5346..5555, 5348..5557, 5357..5557		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519

Name	OJ991029_05.0204.C18.o1.ts	Method	TBLASTX:Soybean
Start	5528	End	6580
GI	none	Score	385
Exons	5528..6019, 5529..6017, 5720..6025, 5729..6022, 6062..6298, 6063..6257, 6083..6208, 6341..6529, 6344..6445, 6383..6580, 6482..6574		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o1.tm	Method	TBLASTX:Maize
Start	5558	End	6634
GI	none	Score	75
Exons	5558..5761, 5564..5746, 5564..5761, 5684..5782, 5819..5974, 5876..6019, 5940..6017, 6051..6458, 6053..6634, 6078..6242, 6344..6481, 6386..6613, 6525..6629		

Seq. No.	38089	Seq. ID	OJ991029_05.0204.C18
Gene No.	78296	Strand	-
Start	461	End	11519
Name	OJ991029_05.0204.C18.o1.tc	Method	TBLASTX:Cress
Start	5564	End	6634
GI	none	Score	65
Exons	5564..5728, 5579..5755, 5613..5729, 5660..6106, 5661..6098, 6062..6229, 6158..6298, 6224..6262, 6344..6424, 6353..6526, 6479..6580, 6482..6634		

Seq. No.	38090	Seq. ID	OJ991029_05.0204.C19
Gene No.	78297	Strand	-
Start	597	End	3686
Name	OJ991029_05.0204.C19.o1.gs	Method	GENSCAN
Start	597	End	3635
GI	none	Score	.44
Exons	597..763, 801..945, 2583..3635		

Seq. No.	38090	Seq. ID	OJ991029_05.0204.C19
Gene No.	78297	Strand	-
Start	597	End	3686
Name	OJ991029_05.0204.C19.o1.np	Method	AAT/NAP
Start	1767	End	3686
GI	3298539	Score	500
Exons	1767..1795, 2969..3686		
GI Descrip.	(AC004681) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	38090	Seq. ID	OJ991029_05.0204.C19
Gene No.	78297	Strand	-
Start	597	End	3686
Name	OJ991029_05.0204.C19.o1.ts	Method	TBLASTX:Soybean
Start	3091	End	3605
GI	none	Score	81
Exons	3091..3255, 3096..3248, 3231..3323, 3354..3383, 3396..3605, 3412..3510		

Seq. No.	38090	Seq. ID	OJ991029_05.0204.C19
Gene No.	78297	Strand	-
Start	597	End	3686
Name	OJ991029_05.0204.C19.o1.tc	Method	TBLASTX:Cress

Start	3096	End	3629
GI	none	Score	135
Exons	3096..3404, 3100..3327, 3349..3384, 3381..3572, 3412..3513, 3573..3629		

Seq. No.	38090	Seq. ID	OJ991029_05.0204.C19
Gene No.	78297	Strand	-
Start	597	End	3686
Name	OJ991029_05.0204.C19.o1.tm	Method	TBLASTX:Maize
Start	3165	End	3657
GI	none	Score	55
Exons	3165..3233, 3165..3260, 3166..3261, 3232..3417, 3264..3404, 3405..3581, 3405..3584, 3570..3608, 3583..3657		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.o2.gs	Method	GENSCAN
Start	3690	End	7168
GI	none	Score	.75
Exons	3690..3840, 4157..4368, 4916..5066, 5141..5375, 5377..5500, 5963..7168		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.o2.tw	Method	TBLASTX:Wheat
Start	6167	End	6376
GI	none	Score	82
Exons	6167..6241, 6167..6241, 6175..6294, 6256..6336, 6296..6337, 6296..6376, 6300..6374		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.o1.np	Method	AAT/NAP
Start	6224	End	7132
GI	3298539	Score	560
Exons	6224..7132		
GI Descrip.	(AC004681) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.o1.tc	Method	TBLASTX:Cress
Start	6380	End	7081
GI	none	Score	195
Exons	6380..6667, 6381..6668, 6666..6857, 6695..6856, 6857..6943, 6858..6944, 7028..7081		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.o1.ts	Method	TBLASTX:Soybean
Start	6380	End	6856
GI	none	Score	88
Exons	6380..6532, 6387..6539, 6527..6607, 6528..6620, 6638..6667,		

6683..6856

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.ol.tm	Method	TBLASTX:Maize
Start	6449	End	6952
GI	none	Score	97
Exons	6449..6571, 6449..6547, 6516..6701, 6548..6688, 6687..6893, 6689..6871, 6854..6892, 6932..6952		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.ol.tw	Method	TBLASTX:Wheat
Start	6794	End	7136
GI	none	Score	145
Exons	6794..6931, 6795..6932, 6938..7135, 6939..7136		

Seq. No.	38091	Seq. ID	OJ991029_05.0204.C20
Gene No.	78298	Strand	-
Start	3690	End	7214
Name	OJ991029_05.0204.C20.ol.gp	Method	AAT/GAP
Start	6796	End	7214
GI	5002833	Score	697
Exons	6796..7214		

Seq. No.	38092	Seq. ID	OJ991029_05.0204.C21
Gene No.	78299	Strand	+
Start	1	End	2120
Name	OJ991029_05.0204.C21.ol.np	Method	AAT/NAP
Start	1	End	2120
GI	6006359	Score	65
Exons	1..51, 1357..1456, 2104..2120		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	38092	Seq. ID	OJ991029_05.0204.C21
Gene No.	78300	Strand	-
Start	596	End	2023
Name	OJ991029_05.0204.C21.ol.gs	Method	GENSCAN
Start	596	End	2023
GI	none	Score	.59
Exons	596..700, 897..1026, 1989..2023		

Seq. No.	38093	Seq. ID	OJ991029_05.0204.C22
Gene No.	78301	Strand	+
Start	360	End	904
Name	OJ991029_05.0204.C22.ol.gs	Method	GENSCAN
Start	360	End	904
GI	none	Score	.81
Exons	360..420, 608..676, 727..904		

Seq. No.	38094	Seq. ID	OJ991029_05.0204.C23
Gene No.	78302	Strand	+
Start	201	End	786
Name	OJ991029_05.0204.C23.ol.gs	Method	GENSCAN
Start	201	End	786

GI	none	Score	.98
Exons	201..477, 626..786		
Seq. No.	38095	Seq. ID	OJ991029_05.0204.C24
Gene No.	78303	Strand	-
Start	869	End	1110
Name	OJ991029_05.0204.C24.o1.gs	Method	GENSCAN
Start	869	End	1110
GI	none	Score	.8
Exons	869..995, 1009..1110		

Seq. No.	38096	Seq. ID	OJ991029_05.0204.C25
Gene No.	78304	Strand	+
Start	3362	End	3732
Name	OJ991029_05.0204.C25.o2.np	Method	AAT/NAP
Start	3362	End	3732
GI	6002794	Score	563
Exons	3362..3732		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	38096	Seq. ID	OJ991029_05.0204.C25
Gene No.	78305	Strand	-
Start	394	End	3556
Name	OJ991029_05.0204.C25.o1.gs	Method	GENSCAN
Start	394	End	3556
GI	none	Score	.52
Exons	394..839, 1605..1692, 2062..2236, 2678..2967, 3379..3556		

Seq. No.	38096	Seq. ID	OJ991029_05.0204.C25
Gene No.	78305	Strand	-
Start	394	End	3556
Name	OJ991029_05.0204.C25.o1.np	Method	AAT/NAP
Start	786	End	2199
GI	6907088	Score	971
Exons	786..1151, 1646..1886, 2062..2199		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78306	Strand	+
Start	1	End	5069
Name	OJ991029_05.0204.C26.o1.np	Method	AAT/NAP
Start	1	End	5069
GI	4680179	Score	2099
Exons	1..30, 1069..3066, 5051..5069		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78307	Strand	+
Start	7596	End	8276
Name	OJ991029_05.0204.C26.o3.gs	Method	GENSCAN
Start	7596	End	8276
GI	none	Score	.5
Exons	7596..8276		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78308	Strand	+
Start	10426	End	20008

Name	OJ991029_05.0204.C26.o4.gs	Method	GENSCAN
Start	10426	End	20008
GI	none	Score	.42
Exons	10426..11037, 12790..12908, 13836..13911, 14522..14569, 14656..14733, 14837..14903, 17469..17521, 18207..18228, 18435..18539, 18884..18953, 19659..19795, 19821..20008		
Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78308	Strand	+
Start	10426	End	20008
Name	OJ991029_05.0204.C26.o2.np	Method	AAT/NAP
Start	14045	End	15695
GI	1825727	Score	170
Exons	14045..14159, 14522..14569, 14688..14733, 14837..14907, 15607..15695		
GI Descrip.	(U88308) C32E8.5 gene product [Caenorhabditis elegans]		
Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78308	Strand	+
Start	10426	End	20008
Name	OJ991029_05.0204.C26.o2.gp	Method	AAT/GAP
Start	14436	End	14912
GI	17465_1.R1084	Score	250
Exons	14436..14491, 14520..14569, 14688..14733, 14837..14912		
GI Descrip.	'1825727 2.0e-22 (U88308) C32E8.5 gene product [Caenorhabditis elegans]'		
Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78308	Strand	+
Start	10426	End	20008
Name	OJ991029_05.0204.C26.o4.gp	Method	AAT/GAP
Start	15332	End	15969
GI	17465_1.R1084	Score	647
Exons	15332..15393, 15605..15969		
GI Descrip.	'1825727 2.0e-22 (U88308) C32E8.5 gene product [Caenorhabditis elegans]'		
Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78309	Strand	-
Start	4592	End	6706
Name	OJ991029_05.0204.C26.o2.gs	Method	GENSCAN
Start	4592	End	6706
GI	none	Score	.49
Exons	4592..4654, 4797..4982, 5927..5947, 6587..6706		
Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o4.tw	Method	TBLASTX:Wheat
Start	924	End	1289
GI	none	Score	272
Exons	924..1289, 929..1030		
Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o5.tw	Method	TBLASTX:Wheat

Start	1314	End	1601
GI	none	Score	131
Exons	1314..1427, 1325..1420, 1503..1601, 1526..1600		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o6.tm	Method	TBLASTX:Maize
Start	1476	End	1673
GI	none	Score	195
Exons	1476..1673, 1526..1672		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o2.tw	Method	TBLASTX:Wheat
Start	1604	End	2087
GI	none	Score	519
Exons	1604..2059, 1605..2087		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o2.tm	Method	TBLASTX:Maize
Start	1674	End	2141
GI	none	Score	391
Exons	1674..2141, 1733..2104		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o1.ts	Method	TBLASTX:Soybean
Start	2028	End	2423
GI	none	Score	56
Exons	2028..2060, 2028..2060, 2045..2140, 2064..2423, 2064..2372, 2180..2395		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o3.tw	Method	TBLASTX:Wheat
Start	2136	End	2432
GI	none	Score	369
Exons	2136..2432, 2180..2395		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o3.tm	Method	TBLASTX:Maize
Start	2157	End	2504
GI	none	Score	308
Exons	2157..2504, 2189..2359		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o1.tw	Method	TBLASTX:Wheat



Start	2438	End	2864
GI	none	Score	606
Exons	2438..2827, 2439..2864, 2496..2849, 2500..2862		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o2.ts	Method	TBLASTX:Soybean
Start	2445	End	2690
GI	none	Score	213
Exons	2445..2690		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o1.tm	Method	TBLASTX:Maize
Start	2511	End	2864
GI	none	Score	474
Exons	2511..2864, 2513..2812		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o1.gp	Method	AAT/GAP
Start	12663	End	13428
GI	14578_1.R1084	Score	662
Exons	12663..12891, 13164..13235, 13337..13428		
GI Descrip.	'2465151/emb CAB16880  2.0e-19 (Z99753) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78310	Strand	-
Start	12663	End	13429
Name	OJ991029_05.0204.C26.o4.tm	Method	TBLASTX:Maize
Start	13129	End	13429
GI	none	Score	112
Exons	13129..13236, 13164..13238, 13165..13236, 13194..13238, 13326..13427, 13328..13429, 13334..13429		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78311	Strand	-
Start	14041	End	14917
Name	OJ991029_05.0204.C26.o3.ts	Method	TBLASTX:Soybean
Start	14041	End	14163
GI	none	Score	186
Exons	14041..14160, 14043..14147, 14074..14163		

Seq. No.	38097	Seq. ID	OJ991029_05.0204.C26
Gene No.	78311	Strand	-
Start	14041	End	14917
Name	OJ991029_05.0204.C26.o5.tm	Method	TBLASTX:Maize
Start	14041	End	14917
GI	none	Score	197
Exons	14041..14160, 14043..14159, 14044..14172, 14507..14575, 14517..14582, 14519..14569, 14686..14733, 14686..14733, 14687..14740, 14688..14741, 14828..14917, 14840..14905, 14841..14906		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78312	Strand	+
Start	5345	End	8098
Name	OJ991029_05.0204.C27.o1.gp	Method	AAT/GAP
Start	5281	End	5601
GI	uC-osflM202076b06b1	Score	598
Exons	5281..5601		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78312	Strand	+
Start	5345	End	8098
Name	OJ991029_05.0204.C27.o5.gs	Method	GENSCAN
Start	5345	End	7912
GI	none	Score	.62
Exons	5345..5395, 5780..5973, 7105..7243, 7314..7590, 7752..7912		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78312	Strand	+
Start	5345	End	8098
Name	OJ991029_05.0204.C27.o2.gp	Method	AAT/GAP
Start	7294	End	8098
GI	none	Score	1188
Exons	7294..7590, 7752..8098		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78313	Strand	-
Start	773	End	1228
Name	OJ991029_05.0204.C27.o2.gs	Method	GENSCAN
Start	773	End	1228
GI	none	Score	.53
Exons	773..979, 1178..1228		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78314	Strand	-
Start	2563	End	2883
Name	OJ991029_05.0204.C27.o3.gs	Method	GENSCAN
Start	2563	End	2883
GI	none	Score	.92
Exons	2563..2715, 2788..2883		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78315	Strand	-
Start	3631	End	4768
Name	OJ991029_05.0204.C27.o4.gs	Method	GENSCAN
Start	3631	End	4768
GI	none	Score	.64
Exons	3631..3833, 4242..4253, 4639..4768		

Seq. No.	38098	Seq. ID	OJ991029_05.0204.C27
Gene No.	78316	Strand	-
Start	8901	End	9010
Name	OJ991029_05.0204.C27.o6.gs	Method	GENSCAN
Start	8901	End	9010
GI	none	Score	.82

Exons 8901..9010

Seq. No.	38099	Seq. ID	OJ991029_05.0204.C28
Gene No.	78317	Strand	+
Start	201	End	390
Name	OJ991029_05.0204.C28.o1.gs	Method	GENSCAN
Start	201	End	390
GI	none	Score	.43
Exons	201..390		

Seq. No.	38099	Seq. ID	OJ991029_05.0204.C28
Gene No.	78318	Strand	-
Start	474	End	2402
Name	OJ991029_05.0204.C28.o1.np	Method	AAT/NAP
Start	474	End	2391
GI	6539555	Score	204
Exons	474..543, 1594..1929, 2161..2391		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi 6539592 dbj BAA88208.1  (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		

Seq. No.	38099	Seq. ID	OJ991029_05.0204.C28
Gene No.	78318	Strand	-
Start	474	End	2402
Name	OJ991029_05.0204.C28.o2.gs	Method	GENSCAN
Start	1006	End	2402
GI	none	Score	.95
Exons	1006..1116, 1621..1667, 2271..2402		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78319	Strand	+
Start	50	End	190
Name	OJ991029_05.0204.C29.o1.np	Method	AAT/NAP
Start	50	End	190
GI	6907084	Score	118
Exons	50..190		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78320	Strand	+
Start	589	End	6050
Name	OJ991029_05.0204.C29.o1.gs	Method	GENSCAN
Start	589	End	6050
GI	none	Score	.74
Exons	589..667, 751..888, 953..1041, 1576..1735, 2131..2310, 2362..2758, 3261..3385, 3878..3991, 4070..4234, 4379..4573, 4642..4775, 4860..5258, 5347..5481, 5985..6050		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78320	Strand	+
Start	589	End	6050
Name	OJ991029_05.0204.C29.o2.np	Method	AAT/NAP
Start	589	End	4595
GI	6016874	Score	2179
Exons	589..667, 751..888, 953..1185, 1576..1735, 2131..2310, 2419..2758, 3257..3521, 3935..4205, 4474..4595		
GI Descrip.	(AP000570) ESTs C19143(E10020), D25076(R3116) correspond to a		

region of the predicted gene.; Similar to putative AC9  
transposase. (P03010) [Oryza sativa]

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78320	Strand	+
Start	589	End	6050
Name	OJ991029_05.0204.C29.o1.gp	Method	AAT/GAP
Start	1278	End	1787
GI	uC-osflcyp110c07b1	Score	959
Exons	1278..1787		
GI Descrip.	'4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78321	Strand	+
Start	14230	End	26256
Name	OJ991029_05.0204.C29.o4.np	Method	AAT/NAP
Start	14230	End	26256
GI	6630699	Score	106
Exons	14230..14409, 20973..21051, 26176..26256		

GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
[Oryza sativa]

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78321	Strand	+
Start	14230	End	26256
Name	OJ991029_05.0204.C29.o3.np	Method	AAT/NAP
Start	14639	End	14828
GI	3047096	Score	70
Exons	14639..14828		
GI Descrip.	(AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 189.74) [Arabidopsis thaliana]		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78321	Strand	+
Start	14230	End	26256
Name	OJ991029_05.0204.C29.o3.gs	Method	GENSCAN
Start	15510	End	16530
GI	none	Score	.92
Exons	15510..15671, 15895..16530		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78321	Strand	+
Start	14230	End	26256
Name	OJ991029_05.0204.C29.o5.gs	Method	GENSCAN
Start	20163	End	25177
GI	none	Score	.79
Exons	20163..20252, 20550..20628, 20769..20998, 22264..22497, 22663..22793, 23631..23803, 25122..25177		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78322	Strand	-
Start	16990	End	18819
Name	OJ991029_05.0204.C29.o4.gs	Method	GENSCAN
Start	16990	End	18819

GI	none	Score	.83
Exons	16990..17138, 18235..18430, 18679..18819		
Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78323	Strand	-
Start	18752	End	20300
Name	OJ991029_05.0204.C29.o2.gp	Method	AAT/GAP
Start	18752	End	20300
GI	2311748	Score	578
Exons	18752..18847, 19224..19298, 20138..20300		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78324	Strand	-
Start	26393	End	28001
Name	OJ991029_05.0204.C29.o1.tm	Method	TBLASTX:Maize
Start	937	End	1383
GI	none	Score	69
Exons	937..1023, 1008..1217, 1009..1257, 1294..1350, 1345..1383		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78324	Strand	-
Start	26393	End	28001
Name	OJ991029_05.0204.C29.o4.tm	Method	TBLASTX:Maize
Start	1477	End	1792
GI	none	Score	65
Exons	1477..1551, 1564..1764, 1567..1695, 1572..1742, 1760..1792		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78324	Strand	-
Start	26393	End	28001
Name	OJ991029_05.0204.C29.o3.tm	Method	TBLASTX:Maize
Start	1998	End	2450
GI	none	Score	259
Exons	1998..2318, 2009..2320, 2409..2450		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78324	Strand	-
Start	26393	End	28001
Name	OJ991029_05.0204.C29.o2.tm	Method	TBLASTX:Maize
Start	2453	End	2696
GI	none	Score	282
Exons	2453..2611, 2463..2696		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78324	Strand	-
Start	26393	End	28001
Name	OJ991029_05.0204.C29.o6.gs	Method	GENSCAN
Start	26393	End	26526
GI	none	Score	.46
Exons	26393..26526		

Seq. No.	38100	Seq. ID	OJ991029_05.0204.C29
Gene No.	78324	Strand	-
Start	26393	End	28001
Name	OJ991029_05.0204.C29.o5.np	Method	AAT/NAP
Start	26396	End	28001
GI	5922620	Score	210

Exons 26396..26526, 27900..28001  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 38101 Seq. ID OJ991029\_05.0204.C30  
 Gene No. 78325 Strand +  
 Start 1 End 1082  
 Name OJ991029\_05.0204.C30.o1.np Method AAT/NAP  
 Start 1 End 1082  
 GI 2258317 Score 269  
 Exons 1..43, 272..651, 694..1082  
 GI Descrip. (AF004879) resistance complex protein I2C-2 [Lycopersicon esculentum]

Seq. No. 38102 Seq. ID OJ991029\_05.0204.C31  
 Gene No. 78326 Strand -  
 Start 315 End 775  
 Name OJ991029\_05.0204.C31.o1.gs Method GENSCAN  
 Start 315 End 775  
 GI none Score .85  
 Exons 315..775

Seq. No. 38103 Seq. ID OJ991029\_05.0204.C32  
 Gene No. 78327 Strand +  
 Start 114 End 263  
 Name OJ991029\_05.0204.C32.o1.gs Method GENSCAN  
 Start 114 End 263  
 GI none Score .97  
 Exons 114..263

Seq. No. 38103 Seq. ID OJ991029\_05.0204.C32  
 Gene No. 78328 Strand -  
 Start 1077 End 1592  
 Name OJ991029\_05.0204.C32.o2.gs Method GENSCAN  
 Start 1077 End 1592  
 GI none Score .91  
 Exons 1077..1592

Seq. No. 38104 Seq. ID OJ991029\_05.0204.C33  
 Gene No. 78329 Strand -  
 Start 312 End 907  
 Name OJ991029\_05.0204.C33.o1.gs Method GENSCAN  
 Start 312 End 907  
 GI none Score .53  
 Exons 312..416, 442..614, 826..907

Seq. No. 38104 Seq. ID OJ991029\_05.0204.C33  
 Gene No. 78330 Strand -  
 Start 1595 End 8061  
 Name OJ991029\_05.0204.C33.o1.gp Method AAT/GAP  
 Start 1276 End 3084  
 GI 17465\_1.R1084 Score 1056  
 Exons 1276..1641, 2275..2345, 2449..2494, 2612..2659, 3026..3084  
 GI Descrip. '1825727 2.0e-22 (U88308) C32E8.5 gene product [Caenorhabditis

elegans]'

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o1.np	Method	AAT/NAP
Start	1553	End	6049
GI	1825727	Score	346
Exons	1553..1641, 2275..2345, 2449..2494, 2612..2659, 3026..3137, 4084..4162, 4318..4389, 5663..6049		
GI Descrip.	(U88308) C32E8.5 gene product [Caenorhabditis elegans]		

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o2.gs	Method	GENSCAN
Start	1595	End	8061
GI	none	Score	.6
Exons	1595..1641, 2279..2345, 2449..2494, 2612..2659, 3026..3140, 4084..4176, 4332..4389, 4577..4643, 4930..4961, 5569..5756, 6615..6721, 7188..7396, 7446..7640, 7738..7911, 7916..8061		

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o1.tm	Method	TBLASTX:Maize
Start	2276	End	5901
GI	none	Score	66
Exons	2276..2341, 2277..2342, 2277..2354, 2441..2494, 2442..2495, 2449..2496, 2449..2496, 2599..2664, 2606..2674, 2612..2662, 3013..3141, 3025..3141, 4088..4183, 4089..4178, 4120..4182, 4321..4392, 4331..4390, 4577..4648, 4577..4648, 5550..5651, 5563..5757, 5563..5763, 5806..5856, 5878..5901		

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o2.ts	Method	TBLASTX:Soybean
Start	3021	End	4138
GI	none	Score	64
Exons	3021..3107, 3021..3134, 3022..3111, 3025..3141, 3038..3142, 4088..4138		

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o2.gp	Method	AAT/GAP
Start	6365	End	6728
GI	30226_1.R1084	Score	391
Exons	6365..6467, 6615..6728		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o1.ts	Method	TBLASTX:Soybean

Start	7759	End	8005
GI	none	Score	235
Exons	7759..7998, 7790..7999, 7817..8005		

Seq. No.	38104	Seq. ID	OJ991029_05.0204.C33
Gene No.	78330	Strand	-
Start	1595	End	8061
Name	OJ991029_05.0204.C33.o1.tc	Method	TBLASTX:Cress
Start	7802	End	7999
GI	none	Score	211
Exons	7802..7975, 7804..7995, 7805..7999		

Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78331	Strand	+
Start	521	End	1846
Name	OJ991029_05.0204.C34.o1.gs	Method	GENSCAN
Start	521	End	1846
GI	none	Score	.84
Exons	521..634, 640..1045, 1830..1846		

Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78332	Strand	-
Start	1389	End	5796
Name	OJ991029_05.0204.C34.o1.np	Method	AAT/NAP
Start	1389	End	5796
GI	4680199	Score	579
Exons	1389..1419, 3151..3276, 3449..3563, 3639..4195, 5770..5796		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78332	Strand	-
Start	1389	End	5796
Name	OJ991029_05.0204.C34.o2.gs	Method	GENSCAN
Start	3161	End	5763
GI	none	Score	.74
Exons	3161..3282, 3453..3563, 3709..3871, 4004..4129, 4261..4482, 4895..5362, 5713..5763		

Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78332	Strand	-
Start	1389	End	5796
Name	OJ991029_05.0204.C34.o1.tm	Method	TBLASTX:Maize
Start	3225	End	3561
GI	none	Score	60
Exons	3225..3353, 3226..3330, 3361..3558, 3361..3561		

Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78332	Strand	-
Start	1389	End	5796
Name	OJ991029_05.0204.C34.o1.ts	Method	TBLASTX:Soybean
Start	3472	End	3902
GI	none	Score	51
Exons	3472..3564, 3637..3714, 3705..3776, 3719..3898, 3819..3902		

Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78332	Strand	-
Start	1389	End	5796



Name	OJ991029_05.0204.C34.ol.tw	Method	TBLASTX:Wheat
Start	3637	End	3991
GI	none	Score	40
Exons	3637..3717, 3638..3718, 3710..3991, 3723..3983		
Seq. No.	38105	Seq. ID	OJ991029_05.0204.C34
Gene No.	78332	Strand	-
Start	1389	End	5796
Name	OJ991029_05.0204.C34.o2.tm	Method	TBLASTX:Maize
Start	3717	End	3931
GI	none	Score	83
Exons	3717..3884, 3719..3931		
Seq. No.	38106	Seq. ID	OJ991029_05.0204.C35
Gene No.	78333	Strand	-
Start	443	End	823
Name	OJ991029_05.0204.C35.ol.gp	Method	AAT/GAP
Start	443	End	823
GI	30226_1.R1084	Score	350
Exons	443..549, 700..823		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		
Seq. No.	38107	Seq. ID	OJ991019_09.0211.C1
Gene No.	78334	Strand	-
Start	1	End	635
Name	OJ991019_09.0211.C1.ol.np	Method	AAT/NAP
Start	1	End	635
GI	5902445	Score	378
Exons	1..635		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	38107	Seq. ID	OJ991019_09.0211.C1
Gene No.	78334	Strand	-
Start	1	End	635
Name	OJ991019_09.0211.C1.ol.ts	Method	TBLASTX:Soybean
Start	38	End	515
GI	none	Score	61
Exons	38..193, 49..192, 234..515, 277..474		
Seq. No.	38107	Seq. ID	OJ991019_09.0211.C1
Gene No.	78334	Strand	-
Start	1	End	635
Name	OJ991019_09.0211.C1.ol.tw	Method	TBLASTX:Wheat
Start	133	End	512
GI	none	Score	94
Exons	133..192, 210..512, 274..456		
Seq. No.	38107	Seq. ID	OJ991019_09.0211.C1
Gene No.	78334	Strand	-
Start	1	End	635
Name	OJ991019_09.0211.C1.ol.tm	Method	TBLASTX:Maize
Start	204	End	635
GI	none	Score	59
Exons	204..341, 204..635, 205..630		
Seq. No.	38107	Seq. ID	OJ991019_09.0211.C1

Gene No. 78334  
 Start 1  
 Name OJ991019\_09.0211.C1.o1.gs  
 Start 425  
 GI none  
 Exons 425..562

Strand -  
 End 635  
 Method GENSCAN  
 End 562  
 Score .42

Seq. No. 38108  
 Gene No. 78335  
 Start 608  
 Name OJ991019\_09.0211.C3.o1.np  
 Start 608  
 GI 6069650  
 Exons 608..666, 1517..2050

Seq. ID OJ991019\_09.0211.C3  
 Strand +  
 End 2162  
 Method AAT/NAP  
 End 2050  
 Score 117

GI Descrip. (AP000616) similar to putative DNA-binding protein RAV2 (AC007017) [Oryza sativa] gi|6907116|dbj|BAA90643.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F11F19 genomic sequence, putative DNA-binding protein RAV2. (AC007017) [Oryza sativa]

Seq. No. 38108  
 Gene No. 78335  
 Start 608  
 Name OJ991019\_09.0211.C3.o1.gs  
 Start 1477  
 GI none  
 Exons 1477..1859, 2057..2162

Seq. ID OJ991019\_09.0211.C3  
 Strand +  
 End 2162  
 Method GENSCAN  
 End 2162  
 Score .55

Seq. No. 38109  
 Gene No. 78336  
 Start 2343  
 Name OJ991019\_09.0211.C4.o1.gs  
 Start 2343  
 GI none  
 Exons 2343..2734, 2920..3083, 4375..4477, 4568..4683, 4710..4727, 5003..5046

Seq. ID OJ991019\_09.0211.C4  
 Strand +  
 End 5046  
 Method GENSCAN  
 End 5046  
 Score .49

Seq. No. 38109  
 Gene No. 78336  
 Start 2343  
 Name OJ991019\_09.0211.C4.o1.np  
 Start 2395  
 GI 3868859  
 Exons 2395..2712, 4305..4411

Seq. ID OJ991019\_09.0211.C4  
 Strand +  
 End 5046  
 Method AAT/NAP  
 End 4411  
 Score 80

GI Descrip. (AB013887) RAV2 [Arabidopsis thaliana] gi|6358760|gb|AAE07342.1|AC011665.1 (AC011665) putative DNA-binding protein (RAV2-like) [Arabidopsis thaliana] gi|6524177|gb|AAF15062.1|AC011914\_4 (AC011914) RAV2 Arabidopsis thaliana]

Seq. No. 38110  
 Gene No. 78337  
 Start 1343  
 Name OJ991019\_09.0211.C5.o1.gp  
 Start 1343  
 GI uC-osrocyp034b07a1  
 Exons 1343..1736

Seq. ID OJ991019\_09.0211.C5  
 Strand +  
 End 1736  
 Method AAT/GAP  
 End 1736  
 Score 788

GI Descrip. '2191127 1.0e-24 (AF007269) A\_IG002N01.1 gene product  
[Arabidopsis thaliana]'

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78338	Strand	+
Start	7501	End	8573
Name	OJ991019_09.0211.C5.o2.gs	Method	GENSCAN
Start	7501	End	8573
GI	none	Score	.5
Exons	7501..7902, 7980..8573		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o1.ts	Method	TBLASTX:Soybean
Start	1486	End	1865
GI	none	Score	182
Exons	1486..1752, 1530..1865, 1530..1865		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o2.tm	Method	TBLASTX:Maize
Start	1506	End	1805
GI	none	Score	336
Exons	1506..1805, 1510..1767, 1583..1804		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o1.gs	Method	GENSCAN
Start	1530	End	5986
GI	none	Score	.86
Exons	1530..2210, 4331..5986		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o1.tc	Method	TBLASTX:Cress
Start	1530	End	4481
GI	none	Score	321
Exons	1530..2162, 1534..1950, 1859..1978, 2056..2151, 4328..4465, 4329..4481, 4368..4466		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o1.np	Method	AAT/NAP
Start	1533	End	2063
GI	2191127	Score	737
Exons	1533..2063		

GI Descrip. (AF007269) A\_IG002N01.1 gene product [Arabidopsis thaliana]

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o1.tm	Method	TBLASTX:Maize

Start	1806	End	4966
GI	none	Score	363
Exons	1806..2162, 1806..2162, 1856..2170, 4328..4966, 4365..4871, 4466..4963		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o3.ts	Method	TBLASTX:Soybean
Start	1866	End	4606
GI	none	Score	127
Exons	1866..2162, 1869..2162, 4328..4606, 4365..4604		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o2.np	Method	AAT/NAP
Start	4304	End	5898
GI	3193306	Score	1375
Exons	4304..5898		
GI Descrip.	(AF069300) contains similarity to Arabidopsis membrane-associated salt-inducible-like protein (GB:AL021637) [Arabidopsis thaliana]		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o2.ts	Method	TBLASTX:Soybean
Start	4607	End	4921
GI	none	Score	251
Exons	4607..4921, 4611..4871		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78339	Strand	-
Start	1530	End	5986
Name	OJ991019_09.0211.C5.o2.tc	Method	TBLASTX:Cress
Start	4631	End	5056
GI	none	Score	185
Exons	4631..4921, 4632..4871, 4634..4912, 4937..4957, 4970..5056		

Seq. No.	38110	Seq. ID	OJ991019_09.0211.C5
Gene No.	78340	Strand	-
Start	7576	End	8081
Name	OJ991019_09.0211.C5.o3.tm	Method	TBLASTX:Maize
Start	7576	End	8081
GI	none	Score	241
Exons	7576..7899, 8001..8081		

Seq. No.	38111	Seq. ID	OJ991019_09.0211.C6
Gene No.	78341	Strand	+
Start	63	End	355
Name	OJ991019_09.0211.C6.o1.gs	Method	GENSCAN
Start	63	End	355
GI	none	Score	.74
Exons	63..161, 174..204, 213..355		

Seq. No.	38112	Seq. ID	OJ991019_09.0211.C7
----------	-------	---------	---------------------

Gene No.	78342	Strand	+
Start	1018	End	4922
Name	OJ991019_09.0211.C7.o1.gs	Method	GENSCAN
Start	1018	End	4922
GI	none	Score	.41
Exons	1018..1236, 2947..3063, 4812..4922		
Seq. No.	38112	Seq. ID	OJ991019_09.0211.C7
Gene No.	78343	Strand	+
Start	6733	End	7134
Name	OJ991019_09.0211.C7.o1.gp	Method	AAT/GAP
Start	6733	End	7134
GI	7406_1.R1084	Score	638
Exons	6733..7134		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	38112	Seq. ID	OJ991019_09.0211.C7
Gene No.	78344	Strand	-
Start	5814	End	7540
Name	OJ991019_09.0211.C7.o2.gs	Method	GENSCAN
Start	5814	End	7540
GI	none	Score	.56
Exons	5814..5841, 6286..6302, 6342..6514, 6774..6864, 7463..7540		
Seq. No.	38113	Seq. ID	OJ991019_09.0211.C8
Gene No.	78345	Strand	+
Start	1	End	4618
Name	OJ991019_09.0211.C8.o1.np	Method	AAT/NAP
Start	1	End	4618
GI	5295955	Score	287
Exons	1..76, 1046..1179, 1250..1387, 1963..2029, 2334..2453, 3173..3461, 3559..3717, 4006..4618		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	38113	Seq. ID	OJ991019_09.0211.C8
Gene No.	78345	Strand	+
Start	1	End	4618
Name	OJ991019_09.0211.C8.o1.gp	Method	AAT/GAP
Start	1658	End	1767
GI	uC-osflcyp088b12b1	Score	148
Exons	1658..1767		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	38113	Seq. ID	OJ991019_09.0211.C8
Gene No.	78346	Strand	-
Start	345	End	5034
Name	OJ991019_09.0211.C8.o1.gs	Method	GENSCAN
Start	345	End	5034
GI	none	Score	.85
Exons	345..484, 1214..1331, 1433..1467, 3577..3696, 3789..3921, 4255..4502, 5016..5034		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78347	Strand	+

Start 2576  
 Name OJ991019\_09.0211.C9.o1.gp  
 Start 2576  
 GI none  
 Exons 2576..2847, 3261..3501

End 6726  
 Method AAT/GAP  
 End 3501  
 Score 983

Seq. No. 38114  
 Gene No. 78347  
 Start 2576  
 Name OJ991019\_09.0211.C9.o1.gs  
 Start 3304  
 GI none  
 Exons 3304..6573

Seq. ID OJ991019\_09.0211.C9  
 Strand +  
 End 6726  
 Method GENSCAN  
 End 6573  
 Score .87

Seq. No. 38114  
 Gene No. 78347  
 Start 2576  
 Name OJ991019\_09.0211.C9.o1.np  
 Start 3922  
 GI 2792238  
 Exons 3922..5379  
 GI Descrip. (AF032697) NBS-LRR type resistance protein [Oryza sativa]

Seq. ID OJ991019\_09.0211.C9  
 Strand +  
 End 6726  
 Method AAT/NAP  
 End 5379  
 Score 702

Seq. No. 38114  
 Gene No. 78347  
 Start 2576  
 Name OJ991019\_09.0211.C9.o2.gp  
 Start 4189  
 GI uC-osflm202106g09b1  
 Exons 4189..4724  
 GI Descrip. '2792238 3.0e-35 (AF032697) NBS-LRR type resistance protein [Oryza sativa]'

Seq. ID OJ991019\_09.0211.C9  
 Strand +  
 End 6726  
 Method AAT/GAP  
 End 4724  
 Score 1064

Seq. No. 38114  
 Gene No. 78347  
 Start 2576  
 Name OJ991019\_09.0211.C9.o3.gp  
 Start 4881  
 GI uC-osflcyp050e07b1  
 Exons 4881..5299  
 GI Descrip. '2792238 2.0e-16 (AF032697) NBS-LRR type resistance protein [Oryza sativa]'

Seq. ID OJ991019\_09.0211.C9  
 Strand +  
 End 6726  
 Method AAT/GAP  
 End 5299  
 Score 773

Seq. No. 38114  
 Gene No. 78347  
 Start 2576  
 Name OJ991019\_09.0211.C9.o4.gp  
 Start 5304  
 GI 17295\_1.R1084  
 Exons 5304..6100  
 GI Descrip. '4519258/dbj|BAA75541.1| 3.0e-09 (AB017914) L-zip+NBS+LRR [Oryza sativa]'

Seq. ID OJ991019\_09.0211.C9  
 Strand +  
 End 6726  
 Method AAT/GAP  
 End 6100  
 Score 1539

Seq. No. 38114  
 Gene No. 78347  
 Start 2576  
 Name OJ991019\_09.0211.C9.o5.gp

Seq. ID OJ991019\_09.0211.C9  
 Strand +  
 End 6726  
 Method AAT/GAP

Start 6152  
GI none  
Exons 6152..6726

End 6726  
Score 1126

Seq. No. 38114  
Gene No. 78348  
Start 16791  
Name OJ991019\_09.0211.C9.o4.gs  
Start 16791  
GI none  
Exons 16791..16873, 16981..17154, 17532..17557, 17802..17851, 18101..18238, 18712..18826, 19512..19668, 19683..20432, 22603..22656, 22779..22788

Seq. ID OJ991019\_09.0211.C9  
Strand +  
End 22788  
Method GENSCAN  
End 22788  
Score .51

Seq. No. 38114  
Gene No. 78349  
Start 37573  
Name OJ991019\_09.0211.C9.o6.np  
Start 37573  
GI 6063557  
Exons 37573..37839, 39704..39787

Seq. ID OJ991019\_09.0211.C9  
Strand +  
End 39787  
Method AAT/NAP  
End 39787  
Score 129

GI Descrip. (AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]

Seq. No. 38114  
Gene No. 78349  
Start 37573  
Name OJ991019\_09.0211.C9.o7.np  
Start 38403  
GI 136125  
Exons 38403..39787  
GI Descrip. PUTATIVE AC TRANSPOSASE (ORFA) gi|22113|emb|CAA29005| (X05424) ORFA [Zea mays]

Seq. ID OJ991019\_09.0211.C9  
Strand +  
End 39787  
Method AAT/NAP  
End 39787  
Score 1177

Seq. No. 38114  
Gene No. 78350  
Start 8056  
Name OJ991019\_09.0211.C9.o2.gs  
Start 8056  
GI none  
Exons 8056..8199, 10699..10815, 11375..11904, 12188..12416

Seq. ID OJ991019\_09.0211.C9  
Strand -  
End 12416  
Method GENSCAN  
End 12416  
Score .49

Seq. No. 38114  
Gene No. 78351  
Start 14325  
Name OJ991019\_09.0211.C9.o3.gs  
Start 14325  
GI none  
Exons 14325..14495, 14593..14683, 14940..15055

Seq. ID OJ991019\_09.0211.C9  
Strand -  
End 15218  
Method GENSCAN  
End 15055  
Score .9

Seq. No. 38114  
Gene No. 78351  
Start 14325  
Name OJ991019\_09.0211.C9.o2.np  
Start 14328  
GI 1360625  
Exons 14328..14495, 14593..14683, 14940..15012, 15146..15218  
GI Descrip. (X98015) histone H3-1 [Trichomonas vaginalis]

Seq. ID OJ991019\_09.0211.C9  
Strand -  
End 15218  
Method AAT/NAP  
End 15218  
Score 411

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78352	Strand	-
Start	26977	End	32779
Name	OJ991019_09.0211.C9.o3.np	Method	AAT/NAP
Start	26841	End	32779
GI	6466937	Score	2216
Exons	26841..30957, 32756..32779		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78352	Strand	-
Start	26977	End	32779
Name	OJ991019_09.0211.C9.o4.np	Method	AAT/NAP
Start	26841	End	32647
GI	6466937	Score	2217
Exons	26841..30987, 31718..31759, 32613..32647		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78352	Strand	-
Start	26977	End	32779
Name	OJ991019_09.0211.C9.o5.gs	Method	GENSCAN
Start	26977	End	32305
GI	none	Score	.87
Exons	26977..29512, 29625..29995, 30034..30279, 30289..30960, 30968..31225, 31631..31725, 32077..32305		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78353	Strand	-
Start	34623	End	36224
Name	OJ991019_09.0211.C9.o6.gs	Method	GENSCAN
Start	34623	End	36031
GI	none	Score	.63
Exons	34623..34733, 35396..35527, 35624..35714, 35946..36031		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78353	Strand	-
Start	34623	End	36224
Name	OJ991019_09.0211.C9.o5.np	Method	AAT/NAP
Start	35360	End	36224
GI	1079199	Score	479
Exons	35360..35527, 35624..35714, 35946..36025, 36156..36224		
GI Descrip.	H3.3 histone - sea urchin (Paracentrotus lividus) gi 557666 emb CAA53692  (X76081) H3.3 histone [Paracentrotus lividus] gi 1091581 prf 12021267A histone H3.3 [Paracentrotus lividus]		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o1.tm	Method	TBLASTX:Maize
Start	3931	End	4851
GI	none	Score	141
Exons	3931..4044, 3943..4041, 4093..4752, 4095..4673, 4139..4762,		



4486..4758, 4556..4762, 4764..4850, 4765..4851

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o2.tm	Method	TBLASTX:Maize
Start	4878	End	5512
GI	none	Score	861
Exons	4878..5510, 4879..5511, 4880..5512		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o1.tw	Method	TBLASTX:Wheat
Start	5313	End	5724
GI	none	Score	239
Exons	5313..5510, 5314..5511, 5322..5549, 5553..5723, 5584..5724, 5590..5724		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o8.tm	Method	TBLASTX:Maize
Start	5562	End	5952
GI	none	Score	277
Exons	5562..5888, 5595..5915, 5596..5892, 5923..5952		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o3.tm	Method	TBLASTX:Maize
Start	5953	End	6586
GI	none	Score	282
Exons	5953..6576, 5954..6316, 5954..6586, 5956..6576, 6186..6578		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o1.ts	Method	TBLASTX:Soybean
Start	14274	End	36225
GI	none	Score	100
Exons	14274..14492, 14335..14493, 14337..14498, 14581..14685, 14594..14683, 14939..14986, 15156..15236, 15157..15219, 35312..35524, 35351..35557, 35612..35716, 35625..35714, 35939..36022, 35949..36035, 36162..36221, 36163..36225		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o1.tc	Method	TBLASTX:Cress
Start	14295	End	36228
GI	none	Score	76
Exons	14295..14429, 14313..14492, 14335..14493, 14581..14685, 14594..14683, 14939..14986, 15156..15218, 15157..15228, 35357..35557, 35363..35524, 35612..35716, 35625..35714, 35939..36022, 35949..36035, 36162..36221, 36163..36228		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o10.tm	Method	TBLASTX:Maize
Start	14311	End	36228
GI	none	Score	172
Exons	14311..14493, 14319..14492, 14576..14683, 14581..14685, 14939..14986, 15156..15218, 15157..15219, 15172..15222, 35348..35524, 35349..35525, 35607..35714, 35612..35716, 35939..36022, 35949..36035, 36162..36221, 36163..36225, 36166..36228, 36179..36226		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o2.tw	Method	TBLASTX:Wheat
Start	14323	End	36225
GI	none	Score	157
Exons	14323..14493, 14331..14492, 14581..14685, 14593..14685, 14939..14986, 15156..15218, 15169..15219, 35363..35524, 35366..35530, 35612..35716, 35625..35714, 35939..36022, 35952..36035, 36162..36221, 36163..36225		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o9.tm	Method	TBLASTX:Maize
Start	26914	End	27300
GI	none	Score	170
Exons	26914..27255, 26930..27199, 27277..27300		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o4.tw	Method	TBLASTX:Wheat
Start	27544	End	27928
GI	none	Score	124
Exons	27544..27927, 27689..27928		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o5.tm	Method	TBLASTX:Maize
Start	27547	End	28107
GI	none	Score	228
Exons	27547..28107, 27611..28087		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o3.ts	Method	TBLASTX:Soybean
Start	27775	End	28098
GI	none	Score	113
Exons	27775..28098, 27776..28087		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-

Start	37613	End	37819
Name	OJ991019_09.0211.C9.o13.tm	Method	TBLASTX:Maize
Start	28141	End	28486
GI	none	Score	110
Exons	28141..28485, 28262..28486		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o6.tw	Method	TBLASTX:Wheat
Start	28393	End	28743
GI	none	Score	225
Exons	28393..28743		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o6.tm	Method	TBLASTX:Maize
Start	28505	End	29118
GI	none	Score	38
Exons	28505..28534, 28594..28878, 28643..28861, 28867..29118, 28967..29056		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o6.ts	Method	TBLASTX:Soybean
Start	28588	End	28833
GI	none	Score	196
Exons	28588..28833		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o5.tw	Method	TBLASTX:Wheat
Start	28747	End	29142
GI	none	Score	234
Exons	28747..28878, 28864..29142		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o2.ts	Method	TBLASTX:Soybean
Start	28864	End	29214
GI	none	Score	103
Exons	28864..29214, 28958..29194		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o7.tm	Method	TBLASTX:Maize
Start	29137	End	29621
GI	none	Score	139
Exons	29137..29472, 29150..29473, 29474..29620, 29475..29621		
Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-

Start	37613	End	37819
Name	OJ991019_09.0211.C9.o3.tw	Method	TBLASTX:Wheat
Start	29191	End	29672
GI	none	Score	114
Exons	29191..29472, 29194..29430, 29471..29671, 29472..29567, 29625..29672		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o12.tm	Method	TBLASTX:Maize
Start	30733	End	30997
GI	none	Score	119
Exons	30733..30993, 30761..30997, 30779..30955		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78354	Strand	-
Start	37613	End	37819
Name	OJ991019_09.0211.C9.o7.gs	Method	GENSCAN
Start	37613	End	37819
GI	none	Score	1
Exons	37613..37819		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78355	Strand	-
Start	38676	End	39786
Name	OJ991019_09.0211.C9.o11.tm	Method	TBLASTX:Maize
Start	38676	End	38866
GI	none	Score	254
Exons	38676..38861, 38679..38861, 38690..38866		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78355	Strand	-
Start	38676	End	39786
Name	OJ991019_09.0211.C9.o5.ts	Method	TBLASTX:Soybean
Start	38709	End	39140
GI	none	Score	217
Exons	38709..38795, 38733..39140, 38891..39013		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78355	Strand	-
Start	38676	End	39786
Name	OJ991019_09.0211.C9.o4.tm	Method	TBLASTX:Maize
Start	38867	End	39786
GI	none	Score	262
Exons	38867..38926, 38928..39179, 38928..39131, 39187..39357, 39187..39357, 39191..39781, 39192..39785, 39376..39786		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
Gene No.	78355	Strand	-
Start	38676	End	39786
Name	OJ991019_09.0211.C9.o4.ts	Method	TBLASTX:Soybean
Start	39189	End	39785
GI	none	Score	117
Exons	39189..39476, 39504..39785		

Seq. No.	38114	Seq. ID	OJ991019_09.0211.C9
----------	-------	---------	---------------------

Gene No.	78355	Strand	
Start	38676	End	39786
Name	OJ991019_09.0211.C9.o7.tw	Method	TBLASTX:Wheat
Start	39195	End	39485
GI	none	Score	202
Exons	39195..39476, 39213..39266, 39339..39485		

Seq. No.	38115	Seq. ID	OJ991019_09.0211.C10
Gene No.	78356	Strand	+
Start	1	End	1242
Name	OJ991019_09.0211.C10.o1.np	Method	AAT/NAP
Start	1	End	1199
GI	1091678	Score	303
Exons	1..100, 155..529, 1073..1199		
GI Descrip.	activator-like transposable element [Pennisetum glaucum]		

Seq. No.	38115	Seq. ID	OJ991019_09.0211.C10
Gene No.	78356	Strand	+
Start	1	End	1242
Name	OJ991019_09.0211.C10.o2.np	Method	AAT/NAP
Start	1	End	1242
GI	6063557	Score	104
Exons	1..32, 1099..1242		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	38115	Seq. ID	OJ991019_09.0211.C10
Gene No.	78356	Strand	+
Start	1	End	1242
Name	OJ991019_09.0211.C10.o1.gs	Method	GENSCAN
Start	88	End	831
GI	none	Score	.76
Exons	88..514, 616..692, 766..831		

Seq. No.	38115	Seq. ID	OJ991019_09.0211.C10
Gene No.	78357	Strand	-
Start	3813	End	9070
Name	OJ991019_09.0211.C10.o1.tm	Method	TBLASTX:Maize
Start	223	End	509
GI	none	Score	40
Exons	223..276, 289..504, 291..509		

Seq. No.	38115	Seq. ID	OJ991019_09.0211.C10
Gene No.	78357	Strand	-
Start	3813	End	9070
Name	OJ991019_09.0211.C10.o1.ts	Method	TBLASTX:Soybean
Start	288	End	513
GI	none	Score	198
Exons	288..494, 298..513		

Seq. No.	38115	Seq. ID	OJ991019_09.0211.C10
Gene No.	78357	Strand	-
Start	3813	End	9070
Name	OJ991019_09.0211.C10.o2.gs	Method	GENSCAN
Start	3813	End	9070
GI	none	Score	.65
Exons	3813..4478, 4501..5376, 6079..6354, 8723..9070		

Seq. No.	38116	Seq. ID	OJ991019_09.0211.C11
Gene No.	78358	Strand	+
Start	215	End	775
Name	OJ991019_09.0211.C11.o1.gs	Method	GENSCAN
Start	215	End	775
GI	none	Score	.95
Exons	215..347, 561..775		
Seq. No.	38117	Seq. ID	OJ991019_09.0211.C14
Gene No.	78359	Strand	-
Start	226	End	595
Name	OJ991019_09.0211.C14.o1.gp	Method	AAT/GAP
Start	226	End	595
GI	30795_1.R1084	Score	724
Exons	226..595		
GI Descrip.	'1009234 3.0e-49 (L38829) SUP2 gene product [Nicotiana tabacum]'		
Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78360	Strand	+
Start	3315	End	8520
Name	OJ991019_09.0211.C15.o1.np	Method	AAT/NAP
Start	3315	End	8517
GI	5295971	Score	7058
Exons	3315..3734, 3780..7031, 7462..8517		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78360	Strand	+
Start	3315	End	8520
Name	OJ991019_09.0211.C15.o2.gs	Method	GENSCAN
Start	3315	End	8520
GI	none	Score	.68
Exons	3315..4138, 4186..4436, 4816..6524, 6696..6827, 6864..7091, 7420..7847, 7913..8088, 8249..8520		
Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78361	Strand	-
Start	1203	End	2794
Name	OJ991019_09.0211.C15.o1.gs	Method	GENSCAN
Start	1203	End	2794
GI	none	Score	.53
Exons	1203..1267, 1366..1520, 2750..2794		
Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o1.tc	Method	TBLASTX:Cress
Start	24	End	2315
GI	none	Score	83
Exons	24..179, 26..181, 27..179, 1198..1269, 1200..1262, 1205..1270, 1347..1520, 1348..1521, 1362..1520, 1363..1524, 1596..1682, 1600..1683, 1606..1683, 2232..2315, 2233..2304		
Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-

Start	7701	End	9483
Name	OJ991019_09.0211.C15.o1.ts	Method	TBLASTX:Soybean
Start	24	End	9483
GI	none	Score	93
Exons	24..179, 27..179, 28..180, 35..181, 1193..1270, 1198..1269, 1350..1514, 1362..1520, 1363..1521, 1363..1521, 1596..1682, 1600..1683, 1612..1683, 2215..2304, 2232..2315, 2233..2304, 9409..9483		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o8.tm	Method	TBLASTX:Maize
Start	24	End	181
GI	none	Score	166
Exons	24..179, 26..181, 27..179		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o5.tw	Method	TBLASTX:Wheat
Start	1204	End	1682
GI	none	Score	81
Exons	1204..1269, 1362..1532, 1366..1503, 1602..1682		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o9.tm	Method	TBLASTX:Maize
Start	1204	End	1682
GI	none	Score	87
Exons	1204..1269, 1362..1532, 1363..1503, 1602..1682		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o7.tm	Method	TBLASTX:Maize
Start	3642	End	4032
GI	none	Score	35
Exons	3642..3656, 3654..3701, 3684..3725, 3693..4031, 3769..3924, 3825..4031, 3970..4032		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o1.tm	Method	TBLASTX:Maize
Start	4223	End	4946
GI	none	Score	373
Exons	4223..4486, 4223..4411, 4228..4476, 4581..4844, 4612..4842, 4832..4942, 4833..4946, 4875..4946		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o1.tw	Method	TBLASTX:Wheat
Start	4871	End	5324
GI	none	Score	339

Exons 4871..5176, 4872..5237, 4875..5264, 5232..5324, 5244..5324

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o6.tm	Method	TBLASTX:Maize
Start	4961	End	5201
GI	none	Score	308
Exons	4961..5200, 4962..5201		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o5.ts	Method	TBLASTX:Soybean
Start	5262	End	5537
GI	none	Score	187
Exons	5262..5537, 5289..5528, 5358..5438		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o2.tw	Method	TBLASTX:Wheat
Start	5397	End	5948
GI	none	Score	99
Exons	5397..5537, 5595..5861, 5612..5761, 5868..5948		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o2.tm	Method	TBLASTX:Maize
Start	5600	End	6026
GI	none	Score	676
Exons	5600..6025, 5604..6026		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o2.ts	Method	TBLASTX:Soybean
Start	5631	End	6032
GI	none	Score	334
Exons	5631..5939, 5636..5926, 5964..6032		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o3.tc	Method	TBLASTX:Cress
Start	5646	End	6074
GI	none	Score	190
Exons	5646..5942, 5786..5932, 5964..6074		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o3.ts	Method	TBLASTX:Soybean
Start	6555	End	7022
GI	5509260	Score	224
Exons	6555..6839, 6587..6811, 6867..6938, 6912..7022, 6914..7021		



GI Descrip. -

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o3.tw	Method	TBLASTX:Wheat
Start	6587	End	7030
GI	none	Score	141
Exons	6587..6664, 6678..6839, 6716..6811, 6834..6917, 6905..7030, 6912..7028		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o5.tm	Method	TBLASTX:Maize
Start	6594	End	6899
GI	none	Score	288
Exons	6594..6857, 6614..6811, 6834..6899, 6834..6899		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o3.tm	Method	TBLASTX:Maize
Start	7528	End	7907
GI	none	Score	410
Exons	7528..7794, 7530..7811, 7791..7844, 7792..7845, 7842..7907, 7845..7907		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o4.tw	Method	TBLASTX:Wheat
Start	7654	End	8018
GI	none	Score	96
Exons	7654..7800, 7842..8018		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o1.gp	Method	AAT/GAP
Start	7701	End	8145
GI	36280_1.R1084	Score	756
Exons	7701..8145		

GI Descrip. 5295971/dbj|BAA81872.1| 1.0e-81 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa].

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o2.tc	Method	TBLASTX:Cress
Start	7845	End	8484
GI	none	Score	216
Exons	7845..8105, 7850..7996, 8021..8104, 8120..8197, 8166..8237, 8266..8484, 8274..8450		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o4.ts	Method	TBLASTX:Soybean
Start	7845	End	8493
GI	none	Score	146
Exons	7845..8006, 7847..7963, 8021..8179, 8037..8240, 8260..8493, 8274..8360		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o10.tm	Method	TBLASTX:Maize
Start	7908	End	8090
GI	none	Score	189
Exons	7908..8090, 7913..8089		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o6.tw	Method	TBLASTX:Wheat
Start	8046	End	8454
GI	none	Score	41
Exons	8046..8111, 8159..8197, 8166..8240, 8251..8454, 8253..8441		

Seq. No.	38118	Seq. ID	OJ991019_09.0211.C15
Gene No.	78362	Strand	-
Start	7701	End	9483
Name	OJ991019_09.0211.C15.o4.tm	Method	TBLASTX:Maize
Start	8096	End	8483
GI	none	Score	152
Exons	8096..8203, 8099..8251, 8131..8250, 8146..8253, 8178..8252, 8237..8428, 8247..8483, 8248..8481		

Seq. No.	38119	Seq. ID	OJ991019_09.0211.C18
Gene No.	78363	Strand	-
Start	1	End	543
Name	OJ991019_09.0211.C18.o1.np	Method	AAT/NAP
Start	1	End	543
GI	4206306	Score	307
Exons	1..543		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	38119	Seq. ID	OJ991019_09.0211.C18
Gene No.	78363	Strand	-
Start	1	End	543
Name	OJ991019_09.0211.C18.o1.tw	Method	TBLASTX:Wheat
Start	1	End	192
GI	none	Score	228
Exons	1..192, 2..187		

Seq. No.	38119	Seq. ID	OJ991019_09.0211.C18
Gene No.	78363	Strand	-
Start	1	End	543
Name	OJ991019_09.0211.C18.o1.ts	Method	TBLASTX:Soybean
Start	1	End	354
GI	none	Score	147

Exons 1..120, 136..354

Seq. No.	38119	Seq. ID	OJ991019_09.0211.C18
Gene No.	78363	Strand	-
Start	1	End	543
Name	OJ991019_09.0211.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	132
GI	none	Score	139
Exons	1..132, 2..130		

Seq. No.	38119	Seq. ID	OJ991019_09.0211.C18
Gene No.	78363	Strand	-
Start	1	End	543
Name	OJ991019_09.0211.C18.o1.gs	Method	GENSCAN
Start	129	End	417
GI	none	Score	.59
Exons	129..417		

Seq. No.	38119	Seq. ID	OJ991019_09.0211.C18
Gene No.	78363	Strand	-
Start	1	End	543
Name	OJ991019_09.0211.C18.o2.tw	Method	TBLASTX:Wheat
Start	193	End	429
GI	none	Score	82
Exons	193..429, 194..361		

Seq. No.	38120	Seq. ID	OJ991109_03.0218.C3
Gene No.	78364	Strand	+
Start	2325	End	3190
Name	OJ991109_03.0218.C3.o1.gs	Method	GENSCAN
Start	2325	End	3190
GI	none	Score	.96
Exons	2325..2375, 3038..3190		

Seq. No.	38120	Seq. ID	OJ991109_03.0218.C3
Gene No.	78365	Strand	+
Start	8139	End	12860
Name	OJ991109_03.0218.C3.o1.np	Method	AAT/NAP
Start	8139	End	12860
GI	6498440	Score	500
Exons	8139..8203, 12626..12860		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38120	Seq. ID	OJ991109_03.0218.C3
Gene No.	78365	Strand	+
Start	8139	End	12860
Name	OJ991109_03.0218.C3.o3.gs	Method	GENSCAN
Start	9795	End	12765
GI	none	Score	.56
Exons	9795..9846, 10153..10367, 10436..10482, 12542..12765		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78366	Strand	+
Start	1095	End	6546
Name	OJ991109_03.0218.C4.o1.gs	Method	GENSCAN
Start	1095	End	6330
GI	none	Score	.64

Exons 1095..1183, 2515..2605, 3576..3749, 4549..4697, 4733..4839, 4999..5095, 5179..5309, 5602..5702, 5850..5960, 6082..6330

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78366	Strand	+
Start	1095	End	6546
Name	OJ991109_03.0218.C4.o1.np	Method	AAT/NAP
Start	2817	End	3595
GI	6498440	Score	195
Exons	2817..2884, 3234..3595		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78366	Strand	+
Start	1095	End	6546
Name	OJ991109_03.0218.C4.o1.gp	Method	AAT/GAP
Start	4745	End	5370
GI	58051_1.R1084	Score	634
Exons	4745..4871, 4999..5095, 5179..5370		
GI Descrip.	'4107312/emb CAA22640  2.0e-30 (AL035075) eukaryotic translation initiation factor 6 [Schizosaccharomyces pombe]'		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78366	Strand	+
Start	1095	End	6546
Name	OJ991109_03.0218.C4.o2.np	Method	AAT/NAP
Start	4989	End	6327
GI	6498439	Score	1051
Exons	4989..5095, 5179..5309, 5602..5702, 5850..5960, 6070..6327		
GI Descrip.	(AP000815) ESTs C98259(C1345), D15820(C1345) correspond to a region of the predicted gene.; Similar to translation initiation factor 6. (AF022229) [Oryza sativa]		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78366	Strand	+
Start	1095	End	6546
Name	OJ991109_03.0218.C4.o2.gp	Method	AAT/GAP
Start	5832	End	6546
GI	3761005	Score	1063
Exons	5832..5960, 6070..6546		
GI Descrip.	4107312/emb CAA22640  2.0e-30 (AL035075) eukaryotic translation initiation factor 6 [Schizosaccharomyces pombe]		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78367	Strand	+
Start	6724	End	7533
Name	OJ991109_03.0218.C4.o3.gp	Method	AAT/GAP
Start	6724	End	7533
GI	41960_1.R1084	Score	1265
Exons	6724..6821, 6861..7533		
GI Descrip.	'5103846/gb AAD39676.1 AC007591_41 2.0e-37 (AC007591) F9L1.43 [Arabidopsis thaliana]'		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78368	Strand	+
Start	14951	End	15884
Name	OJ991109_03.0218.C4.o5.np	Method	AAT/NAP

Start	14951	End	15884
GI	6498436	Score	365
Exons	14951..15037, 15672..15789, 15838..15884		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78369	Strand	-
Start	7087	End	10995
Name	OJ991109_03.0218.C4.o2.gs	Method	GENSCAN
Start	7087	End	10995
GI	none	Score	.82
Exons	7087..8337, 9617..9967, 10028..10166, 10961..10995		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78369	Strand	-
Start	7087	End	10995
Name	OJ991109_03.0218.C4.o3.np	Method	AAT/NAP
Start	7090	End	10995
GI	6498438	Score	2941
Exons	7090..8337, 9617..9967, 10028..10166, 10961..10995		
GI Descrip.	(AP000815) EST C93513(C53164) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome II BAC F5H14 genomic sequence, hypothetical protein. (AC006234) [Oryza sativa]		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78369	Strand	-
Start	7087	End	10995
Name	OJ991109_03.0218.C4.o4.gp	Method	AAT/GAP
Start	7862	End	8280
GI	LIB3434-059-P1-K1-C10	Score	739
Exons	7862..8280		
GI Descrip.	'5103846/gb AAD39676.1 AC007591_41 1.0e-42 (AC007591) F9L1.43 [Arabidopsis thaliana]'		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o2.tm	Method	TBLASTX:Maize
Start	5001	End	6297
GI	none	Score	115
Exons	5001..5093, 5006..5089, 5176..5265, 5177..5266, 5255..5308, 5263..5307, 5591..5728, 5601..5747, 5601..5741, 5836..5943, 5847..5948, 5849..5941, 5852..5962, 5853..5963, 6070..6297, 6135..6296		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o2.tw	Method	TBLASTX:Wheat
Start	5001	End	5728
GI	none	Score	114
Exons	5001..5093, 5006..5089, 5176..5304, 5177..5308, 5601..5678, 5601..5678, 5679..5720, 5681..5728		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-

Start	11576	End	14820
Name	OJ991109_03.0218.C4.o3.tc	Method	TBLASTX:Cress
Start	5001	End	5666
GI	none	Score	112
Exons	5001..5093, 5006..5089, 5176..5307, 5177..5308, 5601..5666		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o2.ts	Method	TBLASTX:Soybean
Start	5001	End	6297
GI	none	Score	107
Exons	5001..5093, 5006..5089, 5176..5307, 5177..5332, 5591..5728, 5601..5732, 5833..5952, 5849..5953, 5852..5962, 5853..5963, 6070..6120, 6135..6296, 6136..6297		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o1.tc	Method	TBLASTX:Cress
Start	5667	End	6297
GI	none	Score	76
Exons	5667..5732, 5679..5732, 5847..5951, 5848..5952, 5852..5962, 5853..5963, 6070..6297, 6135..6275		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o1.tm	Method	TBLASTX:Maize
Start	7013	End	10186
GI	none	Score	365
Exons	7013..7093, 7041..7430, 7085..7453, 7099..7452, 7453..8319, 7454..8020, 7455..8339, 7459..8343, 8001..8339, 9603..9749, 9607..9759, 9614..9778, 9617..9739, 9708..9779, 9791..10168, 9793..10179, 9796..10068, 9800..10186		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o4.tc	Method	TBLASTX:Cress
Start	7079	End	7330
GI	none	Score	89
Exons	7079..7330, 7117..7329		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o1.ts	Method	TBLASTX:Soybean
Start	7115	End	8011
GI	none	Score	235
Exons	7115..7555, 7117..7584, 7162..7572, 7531..7671, 7570..8010, 7580..8011		

Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o1.tw	Method	TBLASTX:Wheat

Start	7210	End	8019
GI	none	Score	390
Exons	7210..7605, 7211..7627, 7897..8019		
Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o2.tc	Method	TBLASTX:Cress
Start	7483	End	7978
GI	none	Score	147
Exons	7483..7932, 7483..7977, 7580..7978		
Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o3.ts	Method	TBLASTX:Soybean
Start	8012	End	8175
GI	none	Score	82
Exons	8012..8173, 8013..8174, 8013..8174, 8014..8175, 8014..8175		
Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o3.gs	Method	GENSCAN
Start	11576	End	14820
GI	none	Score	.52
Exons	11576..12261, 13810..13936, 14094..14209, 14715..14820		
Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78370	Strand	-
Start	11576	End	14820
Name	OJ991109_03.0218.C4.o4.np	Method	AAT/NAP
Start	11579	End	13542
GI	6498437	Score	1200
Exons	11579..12248, 13490..13542		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	38121	Seq. ID	OJ991109_03.0218.C4
Gene No.	78371	Strand	-
Start	15111	End	15530
Name	OJ991109_03.0218.C4.o3.tw	Method	TBLASTX:Wheat
Start	15111	End	15530
GI	none	Score	77
Exons	15111..15227, 15111..15236, 15243..15530, 15320..15529		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78372	Strand	+
Start	1	End	484
Name	OJ991109_03.0218.C5.o1.np	Method	AAT/NAP
Start	1	End	481
GI	6498436	Score	327
Exons	1..98, 363..481		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78372	Strand	+
Start	1	End	484

Name	OJ991109_03.0218.C5.o1.gs	Method	GENSCAN
Start	41	End	484
GI	none	Score	.46
Exons	41..98, 363..484		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78373	Strand	+
Start	9271	End	10777
Name	OJ991109_03.0218.C5.o2.gp	Method	AAT/GAP
Start	9271	End	10777
GI	uC-osroM202032e07b1	Score	902
Exons	9271..9395, 10436..10777		
GI Descrip.	'5042437/gb AC007789.1 AC007789 4.0e-14 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78374	Strand	+
Start	18000	End	19923
Name	OJ991109_03.0218.C5.o4.gs	Method	GENSCAN
Start	18000	End	19923
GI	none	Score	.58
Exons	18000, 18004, 19443, 19923		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78374	Strand	+
Start	18000	End	19923
Name	OJ991109_03.0218.C5.o4.np	Method	AAT/NAP
Start	19438	End	19920
GI	6498433	Score	893
Exons	19438..19920		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78375	Strand	-
Start	1906	End	5088
Name	OJ991109_03.0218.C5.o2.gs	Method	GENSCAN
Start	1906	End	5088
GI	none	Score	.67
Exons	1906..2534, 2542..2825, 4991..5088		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78375	Strand	-
Start	1906	End	5088
Name	OJ991109_03.0218.C5.o2.np	Method	AAT/NAP
Start	2085	End	2804
GI	6498435	Score	1259
Exons	2085..2804		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78376	Strand	-
Start	5092	End	5173
Name	OJ991109_03.0218.C5.o1.gp	Method	AAT/GAP
Start	5092	End	5173
GI	uC-osflcyp088b12b1	Score	100
Exons	5092..5173		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic		



DNA, chromosome 8, clone:P0026F07'

Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78377	Strand	-
Start	5671	End	16148
Name	OJ991109_03.0218.C5.o3.gs	Method	GENSCAN
Start	5671	End	16148
GI	none	Score	.57
Exons	5671..5760, 7473..7734, 7994..8200, 9194..9360, 11582..11707, 13951..14317, 14468..14595, 15999..16148		

Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78377	Strand	-
Start	5671	End	16148
Name	OJ991109_03.0218.C5.o3.np	Method	AAT/NAP
Start	5674	End	16148
GI	6498434	Score	2427
Exons	5674..5760, 7473..7734, 7994..8200, 9194..9360, 11582..11707, 13951..14317, 14468..14595, 15999..16148		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o1.tm	Method	TBLASTX:Maize
Start	10419	End	20262
GI	none	Score	85
Exons	10419..10481, 10432..10482, 10432..10482, 10519..10587, 10520..10585, 10585..10983, 10591..11022, 10625..11020, 12208..12402, 12218..12394, 19439..19630, 19441..19650, 19441..19641, 19702..19749, 19777..19923, 19782..19922, 19973..20038, 20039..20110, 20112..20144, 20114..20143, 20144..20164, 20189..20245, 20230..20262		

Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o1.ts	Method	TBLASTX:Soybean
Start	10723	End	19631
GI	none	Score	66
Exons	10723..10803, 10726..10791, 10792..11022, 10792..10983, 10797..11021, 10802..11035, 12208..12390, 12216..12392, 12218..12394, 19441..19629, 19442..19618, 19446..19631		

Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o1.tw	Method	TBLASTX:Wheat
Start	10800	End	11007
GI	none	Score	233
Exons	10800..10958, 10801..11007		

Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o5.gs	Method	GENSCAN
Start	21281	End	22112

GI	none	Score	.48
Exons	21281..21337, 21903..22112		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o5.np	Method	AAT/NAP
Start	21284	End	22175
GI	6498432	Score	648
Exons	21284..21337, 21598..21741, 21903..22175		
GI Descrip.	(AP000815) Similar to Transcription factor HBP-1B. (P23923) [Oryza sativa]		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o2.tm	Method	TBLASTX:Maize
Start	21470	End	22154
GI	none	Score	69
Exons	21470..21526, 21470..21526, 21570..21743, 21571..21744, 21571..21744, 21872..22150, 21903..22025, 21903..22154, 21907..22149, 22062..22151		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o1.tc	Method	TBLASTX:Cress
Start	21595	End	22154
GI	none	Score	190
Exons	21595..21744, 21892..22149, 21903..22154		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o2.ts	Method	TBLASTX:Soybean
Start	21595	End	22154
GI	none	Score	93
Exons	21595..21744, 21607..21744, 21889..22008, 21903..21977, 22007..22150, 22009..22149, 22029..22154		
Seq. No.	38122	Seq. ID	OJ991109_03.0218.C5
Gene No.	78378	Strand	-
Start	21281	End	22175
Name	OJ991109_03.0218.C5.o2.tw	Method	TBLASTX:Wheat
Start	21957	End	22154
GI	none	Score	52
Exons	21957..21977, 21958..21996, 21989..22120, 21991..22131, 21995..22117, 22029..22154		
Seq. No.	38123	Seq. ID	OJ991109_03.0218.C6
Gene No.	78379	Strand	-
Start	1	End	1395
Name	OJ991109_03.0218.C6.o1.np	Method	AAT/NAP
Start	1	End	914
GI	122772	Score	541
Exons	1..44, 282..553, 702..753, 835..914		
GI Descrip.	TRANSCRIPTION FACTOR HBP-1B gi 100809 pir  S15347 transcription		

factor HBP-1b - wheat gi|21635|emb|CAA40102| (X56782) HBP-1b  
[Triticum aestivum]

Seq. No.	38123	Seq. ID	OJ991109_03.0218.C6
Gene No.	78379	Strand	-
Start	1	End	1395
Name	OJ991109_03.0218.C6.o1.tc	Method	TBLASTX:Cress
Start	277	End	912
GI	none	Score	226
Exons	277..555, 279..554, 700..756, 871..912		

Seq. No.	38123	Seq. ID	OJ991109_03.0218.C6
Gene No.	78379	Strand	-
Start	1	End	1395
Name	OJ991109_03.0218.C6.o1.tm	Method	TBLASTX:Maize
Start	277	End	927
GI	none	Score	305
Exons	277..555, 279..554, 695..754, 700..756, 701..757, 703..780, 834..923, 834..914, 874..927		

Seq. No.	38123	Seq. ID	OJ991109_03.0218.C6
Gene No.	78379	Strand	-
Start	1	End	1395
Name	OJ991109_03.0218.C6.o1.ts	Method	TBLASTX:Soybean
Start	277	End	912
GI	none	Score	223
Exons	277..555, 279..554, 700..756, 701..757, 871..912		

Seq. No.	38123	Seq. ID	OJ991109_03.0218.C6
Gene No.	78379	Strand	-
Start	1	End	1395
Name	OJ991109_03.0218.C6.o1.gs	Method	GENSCAN
Start	282	End	1395
GI	none	Score	.85
Exons	282..553, 1320..1395		

Seq. No.	38123	Seq. ID	OJ991109_03.0218.C6
Gene No.	78379	Strand	-
Start	1	End	1395
Name	OJ991109_03.0218.C6.o1.tw	Method	TBLASTX:Wheat
Start	283	End	912
GI	none	Score	44
Exons	283..321, 300..542, 303..554, 307..555, 700..756, 701..757, 795..908, 874..912		

Seq. No.	38124	Seq. ID	OJ991109_03.0218.C7
Gene No.	78380	Strand	+
Start	328	End	6821
Name	OJ991109_03.0218.C7.o1.gs	Method	GENSCAN
Start	328	End	6821
GI	none	Score	.66
Exons	328..372, 1269..1314, 3288..3416, 4112..4286, 6605..6821		

Seq. No.	38124	Seq. ID	OJ991109_03.0218.C7
Gene No.	78380	Strand	+
Start	328	End	6821
Name	OJ991109_03.0218.C7.o1.np	Method	AAT/NAP

Start	2253	End	3558
GI	6815099	Score	82
Exons	2253..2288, 2968..3035, 3426..3558		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	38124	Seq. ID	OJ991109_03.0218.C7
Gene No.	78380	Strand	+
Start	328	End	6821
Name	OJ991109_03.0218.C7.o2.np	Method	AAT/NAP
Start	3745	End	4198
GI	6498431	Score	769
Exons	3745..4198		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78381	Strand	+
Start	3512	End	3686
Name	OJ991109_03.0218.C8.o1.gp	Method	AAT/GAP
Start	3512	End	3686
GI	427610	Score	197
Exons	3512..3617, 3661..3686		
GI Descrip.	5852172/emb CAB55410.1  4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78382	Strand	+
Start	3842	End	7769
Name	OJ991109_03.0218.C8.o2.gp	Method	AAT/GAP
Start	3842	End	7769
GI	22376_1.R1084	Score	1768
Exons	3842..4099, 5391..5462, 6325..6468, 6659..6730, 6826..6897, 7440..7769		
GI Descrip.	'1619300/emb CAA64565  3.0e-86 (X95269) LRR protein [Lycopersicon esculentum]'		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78382	Strand	+
Start	3842	End	7769
Name	OJ991109_03.0218.C8.o2.np	Method	AAT/NAP
Start	3891	End	7506
GI	6498429	Score	957
Exons	3891..4099, 5391..5462, 6325..6468, 6659..6730, 6826..6897, 7440..7506		

GI Descrip. (AP000815) ESTs C97644(C60871),AU081265(C60871) correspond to a region of the predicted gene.; similar to L.esculentum LRP gene. (X95269) [Oryza sativa]

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78383	Strand	+
Start	8065	End	8633
Name	OJ991109_03.0218.C8.o3.gp	Method	AAT/GAP
Start	8065	End	8633
GI	none	Score	1070
Exons	8065..8633		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78384	Strand	-

Start	299	End	517
Name	OJ991109_03.0218.C8.o1.gs	Method	GENSCAN
Start	299	End	517
GI	none	Score	.67
Exons	299..517		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78384	Strand	-
Start	299	End	517
Name	OJ991109_03.0218.C8.o1.np	Method	AAT/NAP
Start	302	End	517
GI	6498430	Score	363
Exons	302..517		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78385	Strand	-
Start	1918	End	5270
Name	OJ991109_03.0218.C8.o2.gs	Method	GENSCAN
Start	1918	End	5270
GI	none	Score	.71
Exons	1918..2204, 3830..4069, 4125..4218, 5076..5270		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o3.ts	Method	TBLASTX:Soybean
Start	3957	End	7508
GI	none	Score	153
Exons	3957..4079, 4019..4072, 5371..5463, 5373..5462, 6264..6428, 6320..6448, 6320..6427, 6320..6433, 6325..6477, 6326..6445, 6326..6442, 6326..6445, 6349..6468, 6654..6761, 6806..6895, 6808..6903, 7432..7506, 7437..7508		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o4.tm	Method	TBLASTX:Maize
Start	3957	End	7509
GI	none	Score	173
Exons	3957..4079, 4022..4081, 5364..5462, 5371..5463, 6320..6448, 6325..6468, 6325..6441, 6326..6442, 6341..6445, 6654..6761, 6658..6726, 6683..6742, 6806..6895, 6808..6915, 7431..7505, 7432..7509		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o3.tm	Method	TBLASTX:Maize
Start	8454	End	9265
GI	none	Score	39
Exons	8454..8684, 8458..8490, 8495..8539, 8554..8688, 8565..8672, 8578..8673, 8696..8851, 8763..8852, 8955..9023, 8962..9024, 9182..9265, 9186..9263		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-

Start	8937	End	11464
Name	OJ991109_03.0218.C8.o2.ts	Method	TBLASTX:Soybean
Start	8562	End	9845
GI	none	Score	116
Exons	8562..8684, 8578..8673, 8763..8852, 8765..8851, 8949..9023, 8959..9024, 9182..9286, 9186..9284, 9491..9622, 9496..9618, 9497..9619, 9504..9635, 9531..9620, 9620..9640, 9709..9813, 9711..9836, 9712..9810, 9804..9845		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o2.tc	Method	TBLASTX:Cress
Start	8574	End	9272
GI	none	Score	97
Exons	8574..8684, 8577..8672, 8578..8673, 8763..8852, 8765..8851, 8954..9046, 8955..9023, 8956..9051, 9182..9250, 9182..9265, 9186..9272		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o3.np	Method	AAT/NAP
Start	8577	End	11464
GI	6498428	Score	2080
Exons	8577..8671, 8767..8851, 8955..9020, 9182..9283, 9500..9637, 9714..9923, 10034..10249, 10687..10842, 10946..11053, 11303..11464		
GI Descrip.	(AP000815) Similar to Arabidopsis thaliana chromosome II BAC T27A16 sequence; hypothetical protein. (AC005496) [Oryza sativa]		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o3.gs	Method	GENSCAN
Start	8937	End	11047
GI	none	Score	.9
Exons	8937..9020, 9182..9283, 9500..9637, 9714..9923, 10687..10842, 10946..11047		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o4.tc	Method	TBLASTX:Cress
Start	9497	End	9647
GI	none	Score	146
Exons	9497..9640, 9504..9638, 9519..9647, 9524..9646		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o1.tm	Method	TBLASTX:Maize
Start	9563	End	10189
GI	none	Score	100
Exons	9563..9640, 9564..9635, 9564..9647, 9713..9925, 9713..9895, 9714..9926, 9714..9926, 9718..9930, 10028..10189, 10035..10187		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o1.tc	Method	TBLASTX:Cress
Start	9709	End	10219
GI	none	Score	210
Exons	9709..9882, 9711..9923, 9712..9924, 10041..10217, 10043..10219, 10043..10219		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o4.gp	Method	AAT/GAP
Start	9720	End	10842
GI	6515_1.R1084	Score	1103
Exons	9720..9923, 10034..10249, 10687..10842		
GI Descrip.	'3582333 7.0e-92 (AC005496) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o1.ts	Method	TBLASTX:Soybean
Start	9861	End	10845
GI	none	Score	49
Exons	9861..9926, 9862..9930, 10032..10250, 10034..10285, 10035..10250, 10687..10845, 10688..10843		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o2.tm	Method	TBLASTX:Maize
Start	10190	End	11369
GI	none	Score	74
Exons	10190..10252, 10191..10250, 10687..10845, 10688..10846, 10943..11065, 10947..11075, 10950..11069, 11294..11368, 11295..11369		

Seq. No.	38125	Seq. ID	OJ991109_03.0218.C8
Gene No.	78386	Strand	-
Start	8937	End	11464
Name	OJ991109_03.0218.C8.o3.tc	Method	TBLASTX:Cress
Start	10686	End	10997
GI	none	Score	65
Exons	10686..10844, 10687..10845, 10687..10845, 10688..10846, 10943..10996, 10950..10997		

Seq. No.	38126	Seq. ID	OJ991109_03.0218.C9
Gene No.	78387	Strand	+
Start	415	End	618
Name	OJ991109_03.0218.C9.o1.gs	Method	GENSCAN
Start	415	End	618
GI	none	Score	.46
Exons	415..618		

Seq. No.	38126	Seq. ID	OJ991109_03.0218.C9
Gene No.	78388	Strand	+

Start	4855	End	5311
Name	OJ991109_03.0218.C9.o3.gs	Method	GENSCAN
Start	4855	End	5311
GI	none	Score	.87
Exons	4855..5035, 5241..5311		

Seq. No.	38126	Seq. ID	OJ991109_03.0218.C9
Gene No.	78388	Strand	+
Start	4855	End	5311
Name	OJ991109_03.0218.C9.o3.np	Method	AAT/NAP
Start	4855	End	5091
GI	6498426	Score	319
Exons	4855..5091		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38126	Seq. ID	OJ991109_03.0218.C9
Gene No.	78389	Strand	-
Start	1	End	104
Name	OJ991109_03.0218.C9.o1.np	Method	AAT/NAP
Start	1	End	104
GI	6498428	Score	172
Exons	1..104		
GI Descrip.	(AP000815) Similar to Arabidopsis thaliana chromosome II BAC T27A16 sequence; hypothetical protein. (AC005496) [Oryza sativa]		

Seq. No.	38126	Seq. ID	OJ991109_03.0218.C9
Gene No.	78390	Strand	-
Start	932	End	2416
Name	OJ991109_03.0218.C9.o2.gs	Method	GENSCAN
Start	932	End	2416
GI	none	Score	.41
Exons	932..1047, 1261..1322, 2346..2416		

Seq. No.	38126	Seq. ID	OJ991109_03.0218.C9
Gene No.	78390	Strand	-
Start	932	End	2416
Name	OJ991109_03.0218.C9.o2.np	Method	AAT/NAP
Start	935	End	1326
GI	6498427	Score	365
Exons	935..1047, 1203..1326		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78391	Strand	+
Start	1390	End	1701
Name	OJ991109_03.0218.C10.o1.gs	Method	GENSCAN
Start	1390	End	1701
GI	none	Score	.84
Exons	1390..1446, 1518..1622, 1627..1701		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78392	Strand	+
Start	4809	End	17412
Name	OJ991109_03.0218.C10.o2.gs	Method	GENSCAN
Start	4809	End	16961
GI	none	Score	.48
Exons	4809..4992, 7649..7721, 10856..10992, 11016..11721,		



13024..13158, 13641..13681, 13804..13864, 14246..14348,  
14432..14485, 14612..14674, 14949..14998, 15101..15176,  
15555..15758, 16016..16103, 16300..16385, 16447..16578,  
16881..16961

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78392	Strand	+
Start	4809	End	17412
Name	OJ991109_03.0218.C10.o2.np	Method	AAT/NAP
Start	4809	End	7722
GI	6498424	Score	437
Exons	4809..4992, 7649..7722		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78392	Strand	+
Start	4809	End	17412
Name	OJ991109_03.0218.C10.o4.np	Method	AAT/NAP
Start	11057	End	17412
GI	6498423	Score	2603
Exons	11057..11717, 12968..13135, 13641..13681, 13804..13864, 14415..14485, 14612..14674, 15555..15758, 16016..16103, 16300..16385, 16471..16578, 17296..17412		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78393	Strand	-
Start	1517	End	1738
Name	OJ991109_03.0218.C10.o1.np	Method	AAT/NAP
Start	1517	End	1738
GI	6498425	Score	362
Exons	1517..1738		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78394	Strand	-
Start	8930	End	10773
Name	OJ991109_03.0218.C10.o3.np	Method	AAT/NAP
Start	8930	End	10773
GI	5852093	Score	29
Exons	8930..8954, 9892..9922, 10677..10773		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78395	Strand	-
Start	17123	End	19717
Name	OJ991109_03.0218.C10.o3.gs	Method	GENSCAN
Start	17123	End	19717
GI	none	Score	.88
Exons	17123..17287, 17578..17758, 18492..18861, 19492..19717		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78395	Strand	-
Start	17123	End	19717
Name	OJ991109_03.0218.C10.o5.np	Method	AAT/NAP
Start	18491	End	19717
GI	6498422	Score	732

Exons 18491..18861, 19642..19717  
 GI Descrip. (AP000815) ESTs AU030013(E50493), AU081341(E50493) correspond to a region of the predicted gene.; Similar to O.sativa gene encoding calmodulin. (Z12828) [Oryza sativa]

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78396	Strand	-
Start	20606	End	29654
Name	OJ991109_03.0218.C10.o4.gs	Method	GENSCAN
Start	20606	End	29654
GI	none	Score	.77
Exons	20606..20801, 22319..22405, 22490..22602, 23029..23163, 23275..23365, 23442..23510, 23604..23791, 24331..24465, 24557..24631, 24714..24954, 26277..26355, 28734..28826, 29600..29654		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78396	Strand	-
Start	20606	End	29654
Name	OJ991109_03.0218.C10.o6.np	Method	AAT/NAP
Start	20609	End	28818
GI	6498421	Score	3070

Exons 20609..20793, 21897..22134, 22250..22390, 22489..22868, 23029..23163, 23275..23365, 23442..23510, 23604..23791, 24331..24465, 24557..24631, 24714..24954, 26277..26355, 28734..28818

GI Descrip. (AP000815) ESTs AU081256(C53656), AU081257(C53656), AU032236(R3784), AU081351(E61905), AU031587(E61905), AU081361(R3784) correspond to a region of the predicted gene.; Similar to alien-like protein. (AC005623) [Oryza sativa]

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o8.ts	Method	TBLASTX:Soybean
Start	13640	End	16584
GI	none	Score	75
Exons	13640..13693, 13640..13684, 13804..13881, 13806..13865, 14058..14162, 14193..14354, 14238..14348, 14255..14395, 14258..14350, 14425..14490, 14426..14488, 15099..15176, 15555..15617, 15678..15773, 16007..16108, 16296..16388, 16471..16584		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o4.tm	Method	TBLASTX:Maize
Start	14057	End	17685
GI	none	Score	117
Exons	14057..14143, 14058..14162, 14238..14348, 14247..14396, 14426..14488, 14612..14674, 14940..14999, 14946..14999, 15098..15178, 15099..15176, 15666..15785, 15690..15779, 15954..16016, 16007..16117, 16015..16119, 16296..16388, 16471..16584, 17138..17230, 17139..17234, 17339..17386, 17343..17387, 17602..17685, 17603..17680		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
----------	-------	---------	----------------------

Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o2.tw	Method	TBLASTX:Wheat
Start	16052	End	17381
GI	none	Score	62
Exons	16052..16105, 16052..16117, 16060..16116, 16296..16388, 16299..16388, 16469..16576, 16470..16574, 16470..16586, 16471..16584, 16983..17036, 16984..17037, 16991..17071, 17138..17230, 17139..17234, 17339..17377, 17343..17381		
Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o1.tw	Method	TBLASTX:Wheat
Start	18478	End	19717
GI	none	Score	395
Exons	18478..18645, 18488..18862, 18491..18856, 18491..18697, 18491..18685, 18710..18862, 19640..19717, 19641..19682		
Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o2.tc	Method	TBLASTX:Cress.
Start	18482	End	19717
GI	none	Score	313
Exons	18482..18862, 18483..18863, 18491..18685, 19640..19717, 19641..19682		
Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o3.tm	Method	TBLASTX:Maize
Start	18482	End	19717
GI	none	Score	370
Exons	18482..18862, 18491..18862, 18491..18685, 18491..18697, 19640..19717, 19641..19682		
Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o2.ts	Method	TBLASTX:Soybean
Start	18487	End	19717
GI	none	Score	384
Exons	18487..18645, 18488..18862, 18491..18862, 18491..18685, 18491..18685, 19640..19717, 19641..19682		
Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o2.tm	Method	TBLASTX:Maize
Start	22292	End	28829
GI	none	Score	129
Exons	22292..22408, 22312..22407, 22489..22602, 22490..22561, 22497..22604, 23018..23143, 23028..23144, 23029..23187, 23029..23169, 23264..23377, 23268..23369, 23275..23376, 23436..23510, 23439..23510, 23440..23511, 23441..23515, 23601..23798, 23602..23793, 23603..23797, 24310..24468,		

24331..24465, 24347..24466, 24551..24634, 24558..24632,  
 24559..24633, 24714..24953, 24745..24954, 24854..24955,  
 26275..26358, 26276..26368, 26277..26360, 28731..28829,  
 28732..28827

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o4.ts	Method	TBLASTX:Soybean
Start	22384	End	23480
GI	none	Score	120
Exons	22384..22407, 22489..22602, 22970..23143, 23013..23165, 23029..23169, 23044..23166, 23264..23347, 23274..23336, 23275..23346, 23336..23377, 23347..23376, 23439..23480, 23441..23479		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o5.ts	Method	TBLASTX:Soybean
Start	23578	End	24391
GI	none	Score	91
Exons	23578..23790, 23579..23797, 23596..23736, 23601..23780, 24331..24390, 24335..24391		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o4.tc	Method	TBLASTX:Cress
Start	23615	End	24468
GI	none	Score	211
Exons	23615..23797, 23628..23798, 24331..24468, 24331..24465, 24336..24467		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o7.ts	Method	TBLASTX:Soybean
Start	24393	End	24782
GI	none	Score	54
Exons	24393..24467, 24394..24468, 24394..24465, 24551..24634, 24551..24634, 24558..24653, 24711..24770, 24713..24766, 24714..24782, 24716..24781		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o3.tc	Method	TBLASTX:Cress
Start	24573	End	26351
GI	none	Score	85
Exons	24573..24668, 24575..24634, 24714..24953, 24745..24954, 26276..26350, 26280..26351		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o6.ts	Method	TBLASTX:Soybean

Start	24789	End	28827
GI	none	Score	209
Exons	24789..24953, 24790..24954, 24797..24955, 24798..24956, 26276..26368, 26277..26357, 28732..28827		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o1.tm	Method	TBLASTX:Maize
Start	30978	End	33027
GI	none	Score	50
Exons	30978..31007, 31013..31099, 31036..31095, 31043..31096, 31114..31449, 31115..31333, 31171..31449, 31173..31451, 31653..31775, 31666..31770, 31854..32198, 31870..32199, 32133..32201, 32159..32200, 32365..32457, 32391..32459, 32392..32457, 32523..32861, 32593..32709, 32607..32714, 32704..33027, 32773..33027		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o1.ts	Method	TBLASTX:Soybean
Start	31171	End	32183
GI	none	Score	315
Exons	31171..31488, 31179..31451, 31653..31775, 31671..31769, 31672..31770, 31854..32183, 31870..32181		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o1.tc	Method	TBLASTX:Cress
Start	31183	End	32858
GI	none	Score	175
Exons	31183..31311, 31185..31451, 31188..31433, 31189..31449, 31653..31775, 31672..31770, 31854..32198, 31870..32199, 32391..32459, 32392..32457, 32523..32858, 32593..32709, 32796..32825		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o5.gs	Method	GENSCAN
Start	31185	End	33026
GI	none	Score	.77
Exons	31185..31448, 31671..31769, 31788..32199, 32392..32456, 32556..33026		

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o7.np	Method	AAT/NAP
Start	31188	End	33026
GI	6498420	Score	1999
Exons	31188..31448, 31671..31769, 31872..32199, 32392..32456, 32556..33026		
GI Descrip.	(AP000815) ESTs D47452(S12946),C23573(S10086),C19173(E10057), AU081294(E10057),AU032455(S10086) correspond to a region of the		

predicted gene.; Similar to PNIL34. (U37437) [Oryza sativa]  
 gi|6721522|dbj|BAA89564.1| (AP001072) ESTs  
 D47452(S12946),C23573(S10086),C19173(E10057),  
 AU081294(E10057),AU032455(S10086) correspond to a region of the  
 predicted gene.; Similar to PNIL3

Seq. No.	38127	Seq. ID	OJ991109_03.0218.C10
Gene No.	78397	Strand	-
Start	31185	End	33027
Name	OJ991109_03.0218.C10.o3.ts	Method	TBLASTX:Soybean
Start	32632	End	32858
GI	none	Score	89
Exons	32632..32709, 32634..32858, 32793..32825		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78398	Strand	+
Start	1189	End	1328
Name	OJ991109_03.0218.C11.o1.gs	Method	GENSCAN
Start	1189	End	1328
GI	none	Score	.49
Exons	1189..1328		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78399	Strand	-
Start	2189	End	4797
Name	OJ991109_03.0218.C11.o2.gs	Method	GENSCAN
Start	2189	End	4569
GI	none	Score	.76
Exons	2189..2629, 3060..3293, 3848..4177, 4381..4569		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78399	Strand	-
Start	2189	End	4797
Name	OJ991109_03.0218.C11.o1.np	Method	AAT/NAP
Start	2192	End	4797
GI	6498419	Score	2110
Exons	2192..2629, 3060..3293, 3848..4177, 4381..4569, 4747..4797		
GI Descrip.	(AP000815) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18 (AL035356) [Oryza sativa] gi 6721521 dbj BAA89563.1  (AP001072) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18, putative protein. (AL035356) [Oryza sativa]		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78399	Strand	-
Start	2189	End	4797
Name	OJ991109_03.0218.C11.o1.gp	Method	AAT/GAP
Start	2312	End	3192
GI	LIB3433-019-P1-K1-F6	Score	865
Exons	2312..2629, 3060..3192		
GI Descrip.	'3402718 9.0e-16 (AC004261) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78400	Strand	-
Start	6140	End	6390
Name	OJ991109_03.0218.C11.o1.ts	Method	TBLASTX:Soybean

Start	2441	End	4569
GI	none	Score	117
Exons	2441..2632, 3060..3293, 3067..3294, 3843..4031, 3848..4030, 4106..4189, 4453..4569		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78400	Strand	-
Start	6140	End	6390
Name	OJ991109_03.0218.C11.o2.tc	Method	TBLASTX:Cress
Start	2486	End	3293
GI	none	Score	136
Exons	2486..2632, 3060..3293, 3061..3291		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78400	Strand	-
Start	6140	End	6390
Name	OJ991109_03.0218.C11.o1.tm	Method	TBLASTX:Maize
Start	2498	End	4569
GI	none	Score	148
Exons	2498..2632, 3060..3293, 3061..3294, 3843..4019, 3848..4021, 3941..4024, 4103..4189, 4110..4184, 4474..4569		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78400	Strand	-
Start	6140	End	6390
Name	OJ991109_03.0218.C11.o1.tc	Method	TBLASTX:Cress
Start	3848	End	4566
GI	none	Score	64
Exons	3848..4018, 3848..4036, 3852..4031, 4106..4177, 4474..4566		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78400	Strand	-
Start	6140	End	6390
Name	OJ991109_03.0218.C11.o1.tw	Method	TBLASTX:Wheat
Start	3854	End	4189
GI	none	Score	132
Exons	3854..4021, 3855..4019, 4109..4189, 4110..4184		

Seq. No.	38128	Seq. ID	OJ991109_03.0218.C11
Gene No.	78400	Strand	-
Start	6140	End	6390
Name	OJ991109_03.0218.C11.o2.gp	Method	AAT/GAP
Start	6140	End	6390
GI	none	Score	458
Exons	6140..6390		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o1.np	Method	AAT/NAP
Start	1	End	1700
GI	6721520	Score	1659
Exons	1..188, 274..487, 807..921, 991..1233, 1331..1434, 1509..1700		
GI Descrip.	(AP001072) EST AU029428(E30359) corresponds to a region of the predicted gene.; Similar to antifreeze-like protein (D86598) [Oryza sativa]		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o1.ts	Method	TBLASTX:Soybean
Start	4	End	1229
GI	none	Score	62
Exons	4..210, 17..124, 269..487, 270..488, 807..875, 1152..1229		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o1.gs	Method	GENSCAN
Start	7	End	1563
GI	none	Score	1
Exons	7..188, 274..487, 807..921, 991..1233, 1331..1434, 1509..1563		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o1.tc	Method	TBLASTX:Cress
Start	19	End	875
GI	none	Score	99
Exons	19..216, 275..487, 276..395, 450..488, 807..875		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o1.tm	Method	TBLASTX:Maize
Start	22	End	488
GI	none	Score	132
Exons	22..210, 275..487, 276..488		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o2.tm	Method	TBLASTX:Maize
Start	1122	End	1433
GI	none	Score	173
Exons	1122..1235, 1123..1236, 1336..1392, 1350..1433		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o2.tc	Method	TBLASTX:Cress
Start	1170	End	1698
GI	none	Score	122
Exons	1170..1229, 1327..1398, 1519..1698, 1521..1697		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o2.ts	Method	TBLASTX:Soybean
Start	1527	End	1698
GI	none	Score	171
Exons	1527..1697, 1528..1698		

Seq. No.	38129	Seq. ID	OJ991109_03.0218.C12
----------	-------	---------	----------------------



Gene No.	78401	Strand	-
Start	1	End	1700
Name	OJ991109_03.0218.C12.o3.tm	Method	TBLASTX:Maize
Start	1527	End	1700
GI	none	Score	147
Exons	1527..1700, 1528..1698		

Seq. No.	38130	Seq. ID	OJ991109_03.0218.C13
Gene No.	78402	Strand	+
Start	1621	End	1822
Name	OJ991109_03.0218.C13.o1.gs	Method	GENSCAN
Start	1621	End	1822
GI	none	Score	.77
Exons	1621..1822		

Seq. No.	38130	Seq. ID	OJ991109_03.0218.C13
Gene No.	78403	Strand	-
Start	1	End	277
Name	OJ991109_03.0218.C13.o1.np	Method	AAT/NAP
Start	1	End	277
GI	6721520	Score	194
Exons	1..45, 191..277		

GI Descrip. (AP001072) EST AU029428(E30359) corresponds to a region of the predicted gene.; Similar to antifreeze-like protein (D86598) [Oryza sativa]

Seq. No.	38130	Seq. ID	OJ991109_03.0218.C13
Gene No.	78404	Strand	-
Start	2833	End	6687
Name	OJ991109_03.0218.C13.o1.gp	Method	AAT/GAP
Start	2833	End	4136
GI	4160_1.R1084	Score	1123
Exons	2833..3288, 3989..4136		

GI Descrip. '5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]'

Seq. No.	38130	Seq. ID	OJ991109_03.0218.C13
Gene No.	78404	Strand	-
Start	2833	End	6687
Name	OJ991109_03.0218.C13.o1.tm	Method	TBLASTX:Maize
Start	2966	End	3289
GI	none	Score	236
Exons	2966..3004, 2970..3152, 3092..3166, 3193..3240, 3194..3241, 3257..3289		

Seq. No.	38130	Seq. ID	OJ991109_03.0218.C13
Gene No.	78404	Strand	-
Start	2833	End	6687
Name	OJ991109_03.0218.C13.o2.np	Method	AAT/NAP
Start	2969	End	6687
GI	6721519	Score	1519
Exons	2969..3288, 3926..4029, 4267..4424, 4664..4811, 6228..6363, 6576..6687		

GI Descrip. (AP001072) EST AU082116(E4026) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	38131	Seq. ID	OJ991109_03.0218.C14
----------	-------	---------	----------------------

Gene No.	78405	Strand	+
Start	405	End	547
Name	OJ991109_03.0218.C14.o1.gs	Method	GENSCAN
Start	405	End	547
GI	none	Score	.88
Exons	405..547		

Seq. No.	38131	Seq. ID	OJ991109_03.0218.C14
Gene No.	78406	Strand	-
Start	1	End	4135
Name	OJ991109_03.0218.C14.o1.np	Method	AAT/NAP
Start	1	End	4135
GI	6721518	Score	801
Exons	1..186, 2781..2969, 3986..4135		
GI Descrip.	(AP001072) Similar to NBS-LRR-like protein cD7. (AF098970) [Oryza sativa]		

Seq. No.	38131	Seq. ID	OJ991109_03.0218.C14
Gene No.	78406	Strand	-
Start	1	End	4135
Name	OJ991109_03.0218.C14.o1.tm	Method	TBLASTX:Maize
Start	735	End	1117
GI	none	Score	191
Exons	735..998, 736..1017, 1058..1117, 1060..1116		

Seq. No.	38131	Seq. ID	OJ991109_03.0218.C14
Gene No.	78406	Strand	-
Start	1	End	4135
Name	OJ991109_03.0218.C14.o1.tw	Method	TBLASTX:Wheat
Start	1042	End	1402
GI	none	Score	206
Exons	1042..1308, 1109..1402		

Seq. No.	38131	Seq. ID	OJ991109_03.0218.C14
Gene No.	78406	Strand	-
Start	1	End	4135
Name	OJ991109_03.0218.C14.o2.tm	Method	TBLASTX:Maize
Start	1117	End	1435
GI	none	Score	157
Exons	1117..1206, 1118..1264, 1262..1303, 1319..1435		

Seq. No.	38131	Seq. ID	OJ991109_03.0218.C14
Gene No.	78406	Strand	-
Start	1	End	4135
Name	OJ991109_03.0218.C14.o2.gs	Method	GENSCAN
Start	2777	End	4090
GI	none	Score	.88
Exons	2777..2969, 3986..4090		

Seq. No.	38132	Seq. ID	OJ991109_03.0218.C15
Gene No.	78407	Strand	+
Start	174	End	365
Name	OJ991109_03.0218.C15.o1.gs	Method	GENSCAN
Start	174	End	365
GI	none	Score	.92
Exons	174..365		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78408	Strand	+
Start	5244	End	9804
Name	OJ991109_03.0218.C16.o3.np	Method	AAT/NAP
Start	5244	End	9804
GI	4680179	Score	6309
Exons	5244..9804		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78409	Strand	-
Start	1	End	1054
Name	OJ991109_03.0218.C16.o1.np	Method	AAT/NAP
Start	1	End	1054
GI	6721518	Score	1725
Exons	1..1054		
GI Descrip.	(AP001072) Similar to NBS-LRR-like protein cD7. (AF098970) [Oryza sativa]		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78410	Strand	-
Start	1046	End	2923
Name	OJ991109_03.0218.C16.o3.ts	Method	TBLASTX:Soybean
Start	314	End	1315
GI	none	Score	42
Exons	314..451, 482..532, 560..811, 641..769, 983..1072, 1002..1055, 1097..1150, 1172..1315, 1179..1310		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78410	Strand	-
Start	1046	End	2923
Name	OJ991109_03.0218.C16.o7.tm	Method	TBLASTX:Maize
Start	1016	End	1315
GI	none	Score	41
Exons	1016..1063, 1017..1061, 1085..1315, 1101..1310		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78410	Strand	-
Start	1046	End	2923
Name	OJ991109_03.0218.C16.o2.np	Method	AAT/NAP
Start	1046	End	2923
GI	6649085	Score	174
Exons	1046..1326, 2888..2923		
GI Descrip.	(AF146269) resistance gene analog PIC22 [Oryza sativa]		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78411	Strand	-
Start	5520	End	6056
Name	OJ991109_03.0218.C16.o8.tw	Method	TBLASTX:Wheat
Start	5520	End	5879
GI	none	Score	263
Exons	5520..5879, 5642..5878		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78411	Strand	-
Start	5520	End	6056
Name	OJ991109_03.0218.C16.o8.tm	Method	TBLASTX:Maize

Start	5760	End	6056
GI	none	Score	196
Exons	5760...6056, 5777..5947, 5850..6044		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78412	Strand	
Start	6438	End	6800
Name	OJ991109_03.0218.C16.o6.tm	Method	TBLASTX:Maize
Start	6438	End	6713
GI	none	Score	205
Exons	6438..6713		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78412	Strand	
Start	6438	End	6800
Name	OJ991109_03.0218.C16.o7.tw	Method	TBLASTX:Wheat
Start	6447	End	6800
GI	none	Score	268
Exons	6447..6800, 6630..6773		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78413	Strand	
Start	6962	End	7871
Name	OJ991109_03.0218.C16.o4.tw	Method	TBLASTX:Wheat
Start	6962	End	7448
GI	none	Score	530
Exons	6962..7405, 6963..7448		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78413	Strand	
Start	6962	End	7871
Name	OJ991109_03.0218.C16.o3.tm	Method	TBLASTX:Maize
Start	7035	End	7502
GI	none	Score	390
Exons	7035..7502, 7110..7232, 7301..7468		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78413	Strand	
Start	6962	End	7871
Name	OJ991109_03.0218.C16.o5.ts	Method	TBLASTX:Soybean
Start	7035	End	7316
GI	none	Score	183
Exons	7035..7316, 7118..7315		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78413	Strand	
Start	6962	End	7871
Name	OJ991109_03.0218.C16.o1.ts	Method	TBLASTX:Soybean
Start	7389	End	7793
GI	none	Score	57
Exons	7389..7421, 7389..7433, 7421..7474, 7425..7784, 7425..7502, 7426..7785, 7489..7566, 7541..7783, 7557..7793		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78413	Strand	
Start	6962	End	7871
Name	OJ991109_03.0218.C16.o5.tw	Method	TBLASTX:Wheat

Start 7497  
GI none  
Exons 7497..7799, 7535..7798

End 7799  
Score 397

Seq. No. 38133  
Gene No. 78413  
Start 6962  
Name OJ991109\_03.0218.C16.o5.tm  
Start 7518  
GI none  
Exons 7518..7871, 7529..7789

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 7871  
Method TBLASTX:Maize  
End 7871  
Score 325

Seq. No. 38133  
Gene No. 78414  
Start 7800  
Name OJ991109\_03.0218.C16.o1.tw  
Start 7800  
GI none  
Exons 7800..8309, 7806..8219

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 8309  
Method TBLASTX:Wheat  
End 8309  
Score 625

Seq. No. 38133  
Gene No. 78414  
Start 7800  
Name OJ991109\_03.0218.C16.o4.ts  
Start 7809  
GI none  
Exons 7809..8051

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 8309  
Method TBLASTX:Soybean  
End 8051  
Score 193

Seq. No. 38133  
Gene No. 78414  
Start 7800  
Name OJ991109\_03.0218.C16.o2.tm  
Start 7872  
GI none  
Exons 7872..8225, 7874..8140, 7926..8210

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 8309  
Method TBLASTX:Maize  
End 8225  
Score 473

Seq. No. 38133  
Gene No. 78415  
Start 8313  
Name OJ991109\_03.0218.C16.o3.tw  
Start 8313  
GI none  
Exons 8313..8792, 8337..8786, 8408..8791

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 9794  
Method TBLASTX:Wheat  
End 8792  
Score 533

Seq. No. 38133  
Gene No. 78415  
Start 8313  
Name OJ991109\_03.0218.C16.o2.ts  
Start 8580  
GI none  
Exons 8580..8840, 8585..8839

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 9794  
Method TBLASTX:Soybean  
End 8840  
Score 278

Seq. No. 38133  
Gene No. 78415  
Start 8313  
Name OJ991109\_03.0218.C16.o4.tm  
Start 8638

Seq. ID OJ991109\_03.0218.C16  
Strand  
End 9794  
Method TBLASTX:Maize  
End 8930

GI	none	Score	370
Exons	8638..8829, 8639..8926, 8640..8930		
Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78415	Strand	
Start	8313	End	9794
Name	OJ991109_03.0218.C16.o2.tw	Method	TBLASTX:Wheat
Start	8799	End	9425
GI	none	Score	613
Exons	8799..9425, 8802..8828, 8855..9313, 8889..9380, 9365..9424		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78415	Strand	
Start	8313	End	9794
Name	OJ991109_03.0218.C16.o1.tm	Method	TBLASTX:Maize
Start	8982	End	9567
GI	none	Score	219
Exons	8982..9140, 8987..9133, 9138..9236, 9140..9235, 9297..9491, 9487..9567		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78415	Strand	
Start	8313	End	9794
Name	OJ991109_03.0218.C16.o6.tw	Method	TBLASTX:Wheat
Start	9426	End	9794
GI	none	Score	93
Exons	9426..9491, 9453..9494, 9472..9759, 9522..9641, 9741..9794		

Seq. No.	38133	Seq. ID	OJ991109_03.0218.C16
Gene No.	78415	Strand	
Start	8313	End	9794
Name	OJ991109_03.0218.C16.o9.tm	Method	TBLASTX:Maize
Start	9568	End	9768
GI	none	Score	190
Exons	9568..9768		

Seq. No.	38134	Seq. ID	OJ991109_03.0218.C17
Gene No.	78416	Strand	+
Start	7	End	693
Name	OJ991109_03.0218.C17.o1.gs	Method	GENSCAN
Start	7	End	693
GI	none	Score	.99
Exons	7..116, 276..359, 408..693		

Seq. No.	38134	Seq. ID	OJ991109_03.0218.C17
Gene No.	78417	Strand	-
Start	1	End	1024
Name	OJ991109_03.0218.C17.o1.np	Method	AAT/NAP
Start	1	End	1024
GI	5295955	Score	222
Exons	1..198, 278..611, 639..755, 994..1024		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78418	Strand	+
Start	8164	End	8505

Name	OJ991109_03.0218.C18.o2.gs	Method	GENSCAN
Start	8164	End	8505
GI	none	Score	.95
Exons	8164..8505		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78419	Strand	+
Start	11227	End	12979
Name	OJ991109_03.0218.C18.o4.np	Method	AAT/NAP
Start	11227	End	12979
GI	6721515	Score	2221
Exons	11227..11476, 11639..11906, 12137..12802, 12874..12979		
GI Descrip.	(AP001072) Similar to mudrA. (M76978) [Oryza sativa]		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78420	Strand	-
Start	1	End	6307
Name	OJ991109_03.0218.C18.o1.np	Method	AAT/NAP
Start	1	End	717
GI	5295955	Score	81
Exons	1..40, 584..717		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome. (V01555) [Oryza sativa]		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78420	Strand	-
Start	1	End	6307
Name	OJ991109_03.0218.C18.o1.gs	Method	GENSCAN
Start	516	End	6307
GI	none	Score	.55
Exons	516..796, 1192..1280, 1343..1452, 2479..2731, 3137..3378, 4762..4965, 5046..5174, 6230..6307		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78420	Strand	-
Start	1	End	6307
Name	OJ991109_03.0218.C18.o2.np	Method	AAT/NAP
Start	1127	End	6307
GI	6721516	Score	1863
Exons	1127..1280, 1343..1452, 2479..2731, 3137..3378, 4762..4965, 5046..5174, 6230..6307		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78421	Strand	-
Start	7897	End	11069
Name	OJ991109_03.0218.C18.o3.np	Method	AAT/NAP
Start	7897	End	11069
GI	6721516	Score	75
Exons	7897..7972, 9656..9752, 10989..11069		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o3.tm	Method	TBLASTX:Maize
Start	11272	End	11489

GI	none	Score	183
Exons	11272..11481, 11274..11489		
Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o2.tm	Method	TBLASTX:Maize
Start	11644	End	12006
GI	none	Score	233
Exons	11644..11940, 11733..11831, 11926..11991, 11940..12005, 11941..12006		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o1.tm	Method	TBLASTX:Maize
Start	12447	End	12974
GI	none	Score	210
Exons	12447..12614, 12449..12616, 12452..12616, 12619..12801, 12651..12794, 12680..12802, 12713..12805, 12741..12806, 12871..12969, 12872..12970, 12883..12972, 12884..12970, 12885..12974, 12897..12971		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o4.gs	Method	GENSCAN
Start	13570	End	17123
GI	none	Score	.53
Exons	13570..13644, 14600..14627, 15981..16111, 17074..17123		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o5.np	Method	AAT/NAP
Start	14730	End	15171
GI	6721514	Score	318
Exons	14730..14813, 14920..15015, 15133..15171		
GI Descrip.	(AP001072) ESTs D15765(C1211), AU082107(C1211) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o1.gp	Method	AAT/GAP
Start	15352	End	15681
GI	286958	Score	660
Exons	15352..15681		

Seq. No.	38135	Seq. ID	OJ991109_03.0218.C18
Gene No.	78422	Strand	-
Start	13570	End	17884
Name	OJ991109_03.0218.C18.o6.np	Method	AAT/NAP
Start	15980	End	17884
GI	6721513	Score	374
Exons	15980..16111, 17074..17123, 17594..17884		



GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78423	Strand	+
Start	1	End	989
Name	OJ991109_06.0222.C2.o1.np	Method	AAT/NAP
Start	1	End	989
GI	4416302	Score	695

Exons 1..25, 303..989

GI Descrip. (AF105716) copia-type pol polyprotein [Zea mays]

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78423	Strand	+
Start	1	End	989
Name	OJ991109_06.0222.C2.o1.gs	Method	GENSCAN
Start	329	End	931
GI	none	Score	.42

Exons 329..931

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78424	Strand	+
Start	5707	End	6645
Name	OJ991109_06.0222.C2.o2.np	Method	AAT/NAP
Start	2903	End	4571
GI	6539588	Score	97

Exons 2903..3118, 4553..4571

GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78424	Strand	+
Start	5707	End	6645
Name	OJ991109_06.0222.C2.o3.np	Method	AAT/NAP
Start	5003	End	6565
GI	5803260	Score	278

Exons 5003..5093, 5753..6565

GI Descrip. (AP000399) similar to wak1 gene (AJ009696) [Oryza sativa]

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78424	Strand	+
Start	5707	End	6645
Name	OJ991109_06.0222.C2.o2.gs	Method	GENSCAN
Start	5707	End	6645
GI	none	Score	.91

Exons 5707..6645

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78425	Strand	-
Start	7169	End	10246
Name	OJ991109_06.0222.C2.o1.tm	Method	TBLASTX:Maize
Start	311	End	921
GI	none	Score	688

Exons 311..919, 319..921

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78425	Strand	-
Start	7169	End	10246
Name	OJ991109_06.0222.C2.o1.ts	Method	TBLASTX:Soybean

Start	329	End	921
GI	none	Score	289
Exons	329..718, 433..675, 737..916, 751..921		

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78425	Strand	-
Start	7169	End	10246
Name	OJ991109_06.0222.C2.o1.tw	Method	TBLASTX:Wheat
Start	467	End	922
GI	none	Score	112
Exons	467..727, 731..922, 746..919		

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78425	Strand	-
Start	7169	End	10246
Name	OJ991109_06.0222.C2.o1.tc	Method	TBLASTX:Cress
Start	602	End	916
GI	none	Score	86
Exons	602..733, 713..916, 754..870		

Seq. No.	38136	Seq. ID	OJ991109_06.0222.C2
Gene No.	78425	Strand	-
Start	7169	End	10246
Name	OJ991109_06.0222.C2.o3.gs	Method	GENSCAN
Start	7169	End	10246
GI	none	Score	.59
Exons	7169..7258, 8106..8181, 10189..10246		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78426	Strand	+
Start	1	End	2745
Name	OJ991109_06.0222.C3.o1.np	Method	AAT/NAP
Start	1	End	2745
GI	6587816	Score	534
Exons	1..48, 821..1854, 2671..2745		
GI Descrip.	(AC010924) Contains similarity to gb AJ009696 wall-associated kinase 1 from Arabidopsis thaliana and contains a protein kinase PF 00069 domain.		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78426	Strand	+
Start	1	End	2745
Name	OJ991109_06.0222.C3.o1.gs	Method	GENSCAN
Start	967	End	2007
GI	none	Score	.46
Exons	967..2007		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o1.tc	Method	TBLASTX:Cress
Start	548	End	1641
GI	none	Score	62
Exons	548..598, 982..1092, 1026..1091, 1111..1392, 1119..1238, 1389..1517, 1402..1503, 1491..1619, 1510..1641		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
----------	-------	---------	---------------------

Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o1.tm	Method	TBLASTX:Maize
Start	901	End	1845
GI	none	Score	49
Exons	901..993, 997..1104, 1011..1103, 1111..1392, 1198..1320, 1329..1397, 1402..1503, 1418..1477, 1516..1644, 1518..1637, 1645..1845		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o1.ts	Method	TBLASTX:Soybean
Start	997	End	1644
GI	none	Score	81
Exons	997..1104, 1165..1392, 1311..1397, 1402..1491, 1416..1502, 1518..1643, 1519..1644		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o1.tw	Method	TBLASTX:Wheat
Start	1008	End	1383
GI	none	Score	78
Exons	1008..1103, 1015..1104, 1119..1238, 1120..1383		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o2.tw	Method	TBLASTX:Wheat
Start	1396	End	1653
GI	none	Score	101
Exons	1396..1491, 1515..1625, 1516..1653		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o2.gs	Method	GENSCAN
Start	2582	End	3684
GI	none	Score	.55
Exons	2582..2981, 3320..3684		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o2.np	Method	AAT/NAP
Start	2624	End	3825
GI	6730728	Score	514
Exons	2624..3825		
GI Descrip.	(AC018849) unknown protein [Arabidopsis thaliana]		

Seq. No.	38137	Seq. ID	OJ991109_06.0222.C3
Gene No.	78427	Strand	-
Start	2582	End	3825
Name	OJ991109_06.0222.C3.o2.ts	Method	TBLASTX:Soybean
Start	2675	End	3732
GI	none	Score	67

Exons 2675..2812, 2741..2881, 3481..3564, 3485..3571, 3562..3732

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o1.gp	Method	AAT/GAP
Start	974	End	1440
GI	none	Score	755
Exons	974..1440		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o1.gs	Method	GENSCAN
Start	1110	End	4603
GI	none	Score	.53
Exons	1110..1450, 2203..2441, 2589..2645, 2728..2814, 3313..3857, 4343..4603		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o4.tm	Method	TBLASTX:Maize
Start	1388	End	2019
GI	none	Score	64
Exons	1388..1450, 1389..1451, 1562..1657, 1569..1670, 1572..1658, 1873..2019, 1878..2012, 1888..2013		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o1.np	Method	AAT/NAP
Start	1525	End	4597
GI	3337367	Score	1116
Exons	1525..1657, 1890..2008, 2203..2441, 2589..2638, 2742..2817, 3313..3857, 4343..4597		

GI Descrip. (AC004481) hypothetical protein [Arabidopsis thaliana]

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o2.tc	Method	TBLASTX:Cress
Start	2201	End	3362
GI	none	Score	113
Exons	2201..2443, 2202..2444, 3315..3362		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o3.tm	Method	TBLASTX:Maize
Start	2204	End	2459
GI	none	Score	139
Exons	2204..2449, 2205..2459		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603

Name	OJ991109_06.0222.C6.o1.ts	Method	TBLASTX:Soybean
Start	3315	End	4510
GI	none	Score	63
Exons	3315..3413, 3316..3405, 3504..3854, 3505..3597, 3622..3855, 4340..4510		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o1.tm	Method	TBLASTX:Maize
Start	3504	End	3798
GI	none	Score	341
Exons	3504..3797, 3505..3798		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o1.tc	Method	TBLASTX:Cress
Start	3513	End	4522
GI	none	Score	139
Exons	3513..3854, 3550..3855, 4334..4522, 4344..4520		

Seq. No.	38138	Seq. ID	OJ991109_06.0222.C6
Gene No.	78428	Strand	-
Start	1110	End	4603
Name	OJ991109_06.0222.C6.o2.tm	Method	TBLASTX:Maize
Start	3801	End	4522
GI	none	Score	63
Exons	3801..3854, 3801..3857, 3802..3855, 4343..4519, 4347..4520, 4427..4522		

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78429	Strand	+
Start	5050	End	9550
Name	OJ991109_06.0222.C7.o1.gp	Method	AAT/GAP
Start	4568	End	4891
GI	uC-osflcyp011b01b1	Score	551
Exons	4568..4891		
GI Descrip.	'343210 5.0e-78 (M35995) apocytochrome b6 (alt.) [Oryza sativa] >gi_226762_prf_1604469A cytochrome b6 [Oryza sativa]'		

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78429	Strand	+
Start	5050	End	9550
Name	OJ991109_06.0222.C7.o2.gs	Method	GENSCAN
Start	5050	End	9550
GI	none	Score	.51
Exons	5050..5553, 5610..5693, 6273..6471, 6554..7155, 8435..9550		

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78430	Strand	-
Start	4531	End	4868
Name	OJ991109_06.0222.C7.o1.np	Method	AAT/NAP
Start	4531	End	4868
GI	343210	Score	458
Exons	4531..4868		
GI Descrip.	(M35995) apocytochrome b6 (alt.) [Oryza sativa]		

gi|226762|prf||1604469A cytochrome b6 [Oryza sativa]

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78431	Strand	-
Start	10475	End	12197
Name	OJ991109_06.0222.C7.o1.tm	Method	TBLASTX:Maize
Start	4573	End	4814
GI	none	Score	166
Exons	4573..4758, 4575..4814		

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78431	Strand	-
Start	10475	End	12197
Name	OJ991109_06.0222.C7.o1.ts	Method	TBLASTX:Soybean
Start	4573	End	4892
GI	none	Score	232
Exons	4573..4809, 4575..4847, 4575..4859, 4833..4889, 4836..4892, 4855..4890		

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78431	Strand	-
Start	10475	End	12197
Name	OJ991109_06.0222.C7.o1.tc	Method	TBLASTX:Cress
Start	4611	End	4892
GI	none	Score	276
Exons	4611..4823, 4611..4823, 4621..4839, 4824..4892, 4839..4892		

Seq. No.	38139	Seq. ID	OJ991109_06.0222.C7
Gene No.	78431	Strand	-
Start	10475	End	12197
Name	OJ991109_06.0222.C7.o3.gs	Method	GENSCAN
Start	10475	End	12197
GI	none	Score	.88
Exons	10475..10688, 11872..12197		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78432	Strand	+
Start	20	End	647
Name	OJ991109_06.0222.C8.o1.gs	Method	GENSCAN
Start	20	End	647
GI	none	Score	.7
Exons	20..137, 637..647		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78433	Strand	-
Start	4433	End	8793
Name	OJ991109_06.0222.C8.o1.gp	Method	AAT/GAP
Start	4330	End	5693
GI	4716504	Score	816
Exons	4330..4591, 5079..5171, 5614..5693		
GI Descrip.	4803931/gb AAD29804.1 AC006264_12 2.0e-24 (AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78433	Strand	-
Start	4433	End	8793
Name	OJ991109_06.0222.C8.o1.np	Method	AAT/NAP

Start	4395	End	7287
GI	4803931	Score	698
Exons	4395..4591, 5079..5171, 5614..5751, 5834..5961, 6432..6592, 6677..6815, 7164..7287		
GI Descrip.	(AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78433	Strand	-
Start	4433	End	8793
Name	OJ991109_06.0222.C8.o2.gs	Method	GENSCAN
Start	4433	End	8793
GI	none	Score	.77
Exons	4433..4591, 5079..5171, 7177..7341, 8747..8793		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78433	Strand	-
Start	4433	End	8793
Name	OJ991109_06.0222.C8.o1.tm	Method	TBLASTX:Maize
Start	5047	End	7221
GI	none	Score	73
Exons	5047..5172, 5079..5165, 5607..5630, 5614..5751, 5615..5752, 6433..6594, 6434..6595, 6446..6601, 6677..6772, 6677..6769, 6682..6774, 6934..7008, 6954..7007, 7165..7221		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78433	Strand	-
Start	4433	End	8793
Name	OJ991109_06.0222.C8.o1.ts	Method	TBLASTX:Soybean
Start	5686	End	6597
GI	none	Score	62
Exons	5686..5751, 5686..5751, 5831..5962, 6430..6597, 6431..6595		

Seq. No.	38140	Seq. ID	OJ991109_06.0222.C8
Gene No.	78433	Strand	-
Start	4433	End	8793
Name	OJ991109_06.0222.C8.o1.tw	Method	TBLASTX:Wheat
Start	5698	End	6769
GI	none	Score	42
Exons	5698..5751, 5822..5962, 5832..5882, 6430..6594, 6431..6589, 6446..6604, 6677..6769, 6682..6768		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78434	Strand	+
Start	816	End	5628
Name	OJ991109_06.0222.C10.o2.np	Method	AAT/NAP
Start	816	End	4170
GI	4416301	Score	530
Exons	816..1907, 1975..2412, 4093..4170		
GI Descrip.	(AF105716) gag protein [Zea mays]		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78434	Strand	+
Start	816	End	5628
Name	OJ991109_06.0222.C10.o1.np	Method	AAT/NAP
Start	894	End	2615
GI	3645898	Score	615
Exons	894..1990, 2053..2395, 2468..2615		

GI Descrip. (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78434	Strand	+
Start	816	End	5628
Name	OJ991109_06.0222.C10.o1.gs	Method	GENSCAN
Start	1089	End	5628
GI	none	Score	.55
Exons	1089..3119, 3192..3335, 3444..4149, 4151..4308, 4488..4941, 5465..5628		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78434	Strand	+
Start	816	End	5628
Name	OJ991109_06.0222.C10.o3.np	Method	AAT/NAP
Start	2189	End	4976
GI	3645899	Score	1230
Exons	2189..2214, 4065..4976		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o5.tm	Method	TBLASTX:Maize
Start	1119	End	1523
GI	none	Score	257
Exons	1119..1523, 1158..1382, 1220..1510		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o3.tm	Method	TBLASTX:Maize
Start	3087	End	3374
GI	none	Score	78
Exons	3087..3140, 3090..3140, 3092..3154, 3146..3361, 3150..3374, 3156..3359		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o2.tm	Method	TBLASTX:Maize
Start	3438	End	3920
GI	none	Score	133
Exons	3438..3557, 3554..3916, 3555..3920		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o1.tw	Method	TBLASTX:Wheat
Start	3597	End	4097
GI	none	Score	264
Exons	3597..3845, 3599..3826, 3609..3854, 3857..3883, 3857..3883, 3859..3891, 3881..4081, 3885..4097		

Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+



Start	5614	End	7201
Name	OJ991109_06.0222.C10.o6.tm	Method	TBLASTX:Maize
Start	3921	End	4097
GI	none	Score	208
Exons	3921..4097, 3938..4090		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o2.ts	Method	TBLASTX:Soybean
Start	4083	End	4335
GI	none	Score	196
Exons	4083..4250, 4096..4335		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o4.tm	Method	TBLASTX:Maize
Start	4099	End	4302
GI	none	Score	257
Exons	4099..4302, 4119..4301		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o1.tm	Method	TBLASTX:Maize
Start	4303	End	4979
GI	none	Score	40
Exons	4303..4335, 4331..4396, 4332..4601, 4335..4973, 4336..4758, 4529..4966, 4683..4979		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o1.ts	Method	TBLASTX:Soybean
Start	4335	End	4961
GI	none	Score	277
Exons	4335..4706, 4403..4702, 4728..4961		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o2.tw	Method	TBLASTX:Wheat
Start	4458	End	6073
GI	none	Score	112
Exons	4458..4715, 4592..4714, 4737..4913, 4743..4910, 4796..4912, 6011..6073		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10
Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o1.tc	Method	TBLASTX:Cress
Start	4500	End	4958
GI	none	Score	75
Exons	4500..4589, 4593..4727, 4704..4958		
Seq. No.	38141	Seq. ID	OJ991109_06.0222.C10

Gene No.	78435	Strand	+
Start	5614	End	7201
Name	OJ991109_06.0222.C10.o4.np	Method	AAT/NAP
Start	5614	End	7201
GI	6002089	Score	147
Exons	5614..5736, 6530..6568, 7167..7201		
GI Descrip.	(X84147) ribosomal protein S4 [Typha angustifolia]		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78436	Strand	+
Start	41	End	4647
Name	OJ991109_06.0222.C11.o1.np	Method	AAT/NAP
Start	41	End	4370
GI	4406775	Score	302
Exons	41..227, 333..563, 754..1006, 1675..1821, 1906..2027, 2120..2174, 3601..3684, 4189..4370		
GI Descrip.	(AC006836) unknown protein [Arabidopsis thaliana]		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78436	Strand	+
Start	41	End	4647
Name	OJ991109_06.0222.C11.o1.gp	Method	AAT/GAP
Start	84	End	371
GI	none	Score	316
Exons	84..227, 333..371		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78436	Strand	+
Start	41	End	4647
Name	OJ991109_06.0222.C11.o1.gs	Method	GENSCAN
Start	84	End	4403
GI	none	Score	.81
Exons	84..227, 333..666, 755..1002, 1659..1821, 1906..2027, 3621..3687, 4153..4403		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78436	Strand	+
Start	41	End	4647
Name	OJ991109_06.0222.C11.o2.gp	Method	AAT/GAP
Start	954	End	3685
GI	uC-osflcyp099b01b1	Score	829
Exons	954..1002, 1659..1821, 1906..2027, 2120..2185, 3621..3685		
GI Descrip.	'4406775/gb AAD20086  9.0e-12 (AC006836) unknown protein [Arabidopsis thaliana]'		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78436	Strand	+
Start	41	End	4647
Name	OJ991109_06.0222.C11.o3.gp	Method	AAT/GAP
Start	4253	End	4647
GI	11899_1.R1084	Score	759
Exons	4253..4647		
GI Descrip.	'5922603/dbj AP000492.1 AP000492 9.0e-15 Oryza sativa genomic DNA, chromosome 1, clone:P0705D01'		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78437	Strand	-

Start	5120	End	8491
Name	OJ991109_06.0222.C11.o2.gs	Method	GENSCAN
Start	5120	End	8491
GI	none	Score	.79
Exons	5120..5812, 6006..6097, 6797..6938, 7973..8491		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78437	Strand	-
Start	5120	End	8491
Name	OJ991109_06.0222.C11.o2.np	Method	AAT/NAP
Start	5129	End	8001
GI	5123942	Score	973
Exons	5129..5812, 6006..6097, 6797..6938, 7936..8001		
GI Descrip.	(AL079349) putative protein [Arabidopsis thaliana]		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78437	Strand	-
Start	5120	End	8491
Name	OJ991109_06.0222.C11.o5.gp	Method	AAT/GAP
Start	7707	End	8157
GI	LIB3474-001-P1-K1-B10	Score	890
Exons	7707..8157		
GI Descrip.	'4803931/gb AAD29804.1 AC006264.12 2.0e-24 (AC006264) unknown protein [Arabidopsis thaliana]'		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o2.tm	Method	TBLASTX:Maize
Start	80	End	13671
GI	none	Score	73
Exons	80..139, 83..226, 84..227, 288..530, 330..464, 470..529, 13576..13671		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o3.tm	Method	TBLASTX:Maize
Start	730	End	2182
GI	none	Score	63
Exons	730..828, 754..828, 824..925, 829..903, 829..927, 963..1007, 984..1019, 1659..1736, 1662..1724, 1767..1820, 1779..1820, 1901..2020, 1902..2039, 1903..2046, 1904..2011, 2117..2182, 2118..2180		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o4.tm	Method	TBLASTX:Maize
Start	3615	End	4402
GI	none	Score	106
Exons	3615..3689, 3623..3688, 4152..4280, 4162..4323, 4318..4350, 4355..4402		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429

Name	OJ991109_06.0222.C11.o1.tm	Method	TBLASTX:Maize
Start	5118	End	7985
GI	none	Score	130
Exons	5118..5213, 5129..5263, 5129..5833, 5130..5810, 5342..5812, 6012..6098, 6790..6939, 6798..6944, 7947..7985		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o1.tc	Method	TBLASTX:Cress
Start	5132	End	5314
GI	none	Score	112
Exons	5132..5314, 5133..5300		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o2.ts	Method	TBLASTX:Soybean
Start	5132	End	5347
GI	none	Score	138
Exons	5132..5347, 5133..5345		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o1.ts	Method	TBLASTX:Soybean
Start	5348	End	5833
GI	none	Score	285
Exons	5348..5677, 5358..5678, 5678..5833, 5742..5813		

Seq. No.	38142	Seq. ID	OJ991109_06.0222.C11
Gene No.	78438	Strand	-
Start	10569	End	15429
Name	OJ991109_06.0222.C11.o3.gs	Method	GENSCAN
Start	10569	End	15429
GI	none	Score	.48
Exons	10569..10613, 13267..13410, 13467..13742, 14303..14376, 15285..15429		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78439	Strand	+
Start	1	End	3797
Name	OJ991109_06.0222.C14.o1.np	Method	AAT/NAP
Start	1	End	1103
GI	4826399	Score	262
Exons	1..200, 234..897, 1014..1103		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78439	Strand	+
Start	1	End	3797
Name	OJ991109_06.0222.C14.o1.gs	Method	GENSCAN
Start	24	End	3797
GI	none	Score	.58
Exons	24..251, 345..897, 1014..1178, 3709..3797		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
----------	-------	---------	----------------------

Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o1.tc	Method	TBLASTX:Cress
Start	63	End	9390
GI	none	Score	73
Exons	63..122, 828..896, 8677..8733, 8734..8838, 8848..9042, 8916..9011, 9085..9135, 9145..9234, 9259..9390		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o1.tm	Method	TBLASTX:Maize
Start	8650	End	9597
GI	none	Score	62
Exons	8650..8736, 8749..8838, 8848..9054, 8955..9056, 9069..9134, 9073..9135, 9144..9230, 9145..9234, 9259..9381, 9259..9369, 9382..9597		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o1.ts	Method	TBLASTX:Soybean
Start	8665	End	9393
GI	none	Score	42
Exons	8665..8709, 8749..8838, 8847..8882, 8905..9051, 8916..9011, 9052..9135, 9145..9228, 9159..9236, 9253..9393, 9259..9375		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o3.tw	Method	TBLASTX:Wheat
Start	8995	End	9392
GI	none	Score	52
Exons	8995..9141, 9144..9227, 9145..9234, 9259..9381, 9312..9392		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o2.np	Method	AAT/NAP
Start	10390	End	11999
GI	4234854	Score	2147
Exons	10390..11999		
GI Descrip.	(AF082134) pol polyprotein [Zea mays]		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o4.tm	Method	TBLASTX:Maize
Start	10429	End	10887
GI	none	Score	56
Exons	10429..10620, 10669..10845, 10828..10887		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o2.tw	Method	TBLASTX:Wheat
Start	10441	End	10840

GI	none	Score	118
Exons	10441..10836, 10607..10840		
Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o3.ts	Method	TBLASTX:Soybean
Start	10444	End	11010
GI	none	Score	60
Exons	10444..10635, 10624..10815, 10718..10819, 10828..11010		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o2.tm	Method	TBLASTX:Maize
Start	10900	End	11331
GI	none	Score	126
Exons	10900..11196, 10901..11056, 11170..11331		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o1.tw	Method	TBLASTX:Wheat
Start	10996	End	11776
GI	none	Score	154
Exons	10996..11445, 11000..11446, 11422..11775, 11429..11776, 11431..11775		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o3.tm	Method	TBLASTX:Maize
Start	11332	End	11775
GI	none	Score	132
Exons	11332..11433, 11467..11775, 11468..11758		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o2.ts	Method	TBLASTX:Soybean
Start	11467	End	11904
GI	5509260	Score	44
Exons	11467..11904, 11468..11500, 11543..11815, 11871..11897		
GI Descrip.	-		

Seq. No.	38143	Seq. ID	OJ991109_06.0222.C14
Gene No.	78440	Strand	-
Start	10390	End	11999
Name	OJ991109_06.0222.C14.o2.tc	Method	TBLASTX:Cress
Start	11557	End	11817
GI	none	Score	125
Exons	11557..11817, 11579..11815		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o1.np	Method	AAT/NAP

Start	1	End	2431
GI	4234852	Score	2200
Exons	1..2248, 2299..2431		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o1.gs	Method	GENSCAN
Start	55	End	3203
GI	none	Score	.5
Exons	55..1017, 1588..2439, 3149..3203		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o2.ts	Method	TBLASTX:Soybean
Start	293	End	665
GI	none	Score	65
Exons	293..466, 470..661, 498..665		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o1.tw	Method	TBLASTX:Wheat
Start	296	End	958
GI	none	Score	35
Exons	296..394, 321..395, 374..679, 405..656, 719..958, 720..773		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o1.tc	Method	TBLASTX:Cress
Start	299	End	679
GI	none	Score	123
Exons	299..466, 479..679		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o2.tm	Method	TBLASTX:Maize
Start	302	End	679
GI	none	Score	54
Exons	302..373, 381..464, 404..463, 470..679, 572..631		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203
Name	OJ991109_06.0222.C15.o1.ts	Method	TBLASTX:Soybean
Start	666	End	1114
GI	none	Score	82
Exons	666..755, 668..907, 683..862, 760..924, 911..934, 911..1012, 1049..1114		

Seq. No.	38144	Seq. ID	OJ991109_06.0222.C15
Gene No.	78441	Strand	-
Start	1	End	3203

Name	OJ991109_06.0222.C15.o1.tm	Method	TBLASTX:Maize
Start	1328	End	2338
GI	none	Score	44
Exons	1328..1393, 1434..1484, 1589..1720, 1608..1649, 1730..2338, 1761..2234		

Seq. No.	38145	Seq. ID	OJ991109_06.0222.C16
Gene No.	78442	Strand	+
Start	3492	End	3980
Name	OJ991109_06.0222.C16.o1.gs	Method	GENSCAN
Start	3492	End	3980
GI	none	Score	.81
Exons	3492..3503, 3669..3980		

Seq. No.	38145	Seq. ID	OJ991109_06.0222.C16
Gene No.	78443	Strand	+
Start	5092	End	7346
Name	OJ991109_06.0222.C16.o2.gs	Method	GENSCAN
Start	5092	End	7346
GI	none	Score	.67
Exons	5092..5355, 5543..6258, 7166..7346		

Seq. No.	38145	Seq. ID	OJ991109_06.0222.C16
Gene No.	78444	Strand	-
Start	10155	End	11595
Name	OJ991109_06.0222.C16.o3.gs	Method	GENSCAN
Start	10155	End	11595
GI	none	Score	.96
Exons	10155..10327, 11550..11595		

Seq. No.	38146	Seq. ID	OJ991109_06.0222.C18
Gene No.	78445	Strand	+
Start	2082	End	2270
Name	OJ991109_06.0222.C18.o2.gs	Method	GENSCAN
Start	2082	End	2270
GI	none	Score	.79
Exons	2082..2168, 2247..2270		

Seq. No.	38146	Seq. ID	OJ991109_06.0222.C18
Gene No.	78446	Strand	-
Start	14	End	545
Name	OJ991109_06.0222.C18.o1.gs	Method	GENSCAN
Start	14	End	545
GI	none	Score	.64
Exons	14..146, 193..293, 494..545		

Seq. No.	38146	Seq. ID	OJ991109_06.0222.C18
Gene No.	78447	Strand	-
Start	4350	End	6258
Name	OJ991109_06.0222.C18.o3.gs	Method	GENSCAN
Start	4350	End	6258
GI	none	Score	.59
Exons	4350..4429, 6153..6258		

Seq. No.	38147	Seq. ID	OJ991119_03.0225.C2
Gene No.	78448	Strand	+
Start	1	End	139



Name	OJ991119_03.0225.C2.o1.np	Method	AAT/NAP
Start	1	End	139
GI	5679841	Score	163
Exons	1..139		
GI Descrip.	(AJ243961) contains eukaryotic protein kinase domain PF00069 [Oryza sativa]		

Seq. No.	38147	Seq. ID	OJ991119_03.0225.C2
Gene No.	78448	Strand	+
Start	1	End	139
Name	OJ991119_03.0225.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	138
GI	none	Score	201
Exons	1..138, 3..137, 13..138		

Seq. No.	38148	Seq. ID	OJ991119_03.0225.C3
Gene No.	78449	Strand	-
Start	64	End	1430
Name	OJ991119_03.0225.C3.o1.gs	Method	GENSCAN
Start	64	End	1430
GI	none	Score	.42
Exons	64..547, 1343..1430		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78450	Strand	+
Start	5722	End	7147
Name	OJ991119_03.0225.C4.o2.np	Method	AAT/NAP
Start	5722	End	7147
GI	5852084	Score	96
Exons	5722..5746, 7043..7147		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78451	Strand	-
Start	1488	End	5696
Name	OJ991119_03.0225.C4.o1.gs	Method	GENSCAN
Start	1488	End	5696
GI	none	Score	.79
Exons	1488..1594, 2041..2231, 2426..2666, 3036..3255, 3687..4022, 4791..5028, 5656..5696		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78451	Strand	-
Start	1488	End	5696
Name	OJ991119_03.0225.C4.o1.gp	Method	AAT/GAP
Start	1795	End	5069
GI	1971.R1084	Score	2619
Exons	1795..2231, 2426..2666, 3036..3255, 3687..4022, 4791..4847, 4931..5069		
GI Descrip.	'3913653/sp O23877 FENT_ORYSA 0.0e+00 FERREDOXIN--NADP REDUCTASE, EMBRYO ISOZYME PRECURSOR (FNR) >gi_1778686_dbj_BAA13417_(D87547) precursor ferredoxin-NADP+ oxidoreductase [Oryza sativa]'		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78451	Strand	-
Start	1488	End	5696

Name	OJ991119_03.0225.C4.o1.np	Method	AAT/NAP
Start	1976	End	4954
GI	3913653	Score	1867
Exons	1976..2231, 2426..2666, 3036..3255, 3687..4022, 4791..4847, 4931..4954		
GI Descrip.	FERREDOXIN--NADP REDUCTASE, EMBRYO ISOZYME PRECURSOR (FNR) gi 1778686 dbj BAA13417  (D87547) precursor ferredoxin-NADP+ oxidoreductase [Oryza sativa]		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849
Name	OJ991119_03.0225.C4.o2.tm	Method	TBLASTX:Maize
Start	1947	End	2236
GI	none	Score	326
Exons	1947..2192, 1948..2232, 1949..2233, 2063..2236		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849
Name	OJ991119_03.0225.C4.o1.tc	Method	TBLASTX:Cress
Start	1965	End	2472
GI	none	Score	223
Exons	1965..2192, 1970..2233, 1971..2249, 2422..2472		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849
Name	OJ991119_03.0225.C4.o1.ts	Method	TBLASTX:Soybean
Start	1968	End	3929
GI	none	Score	223
Exons	1968..2207, 1973..2233, 1977..2192, 2422..2667, 2429..2668, 3034..3255, 3035..3091, 3108..3242, 3137..3256, 3665..3841, 3672..3920, 3678..3929, 3688..3921		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849
Name	OJ991119_03.0225.C4.o1.tm	Method	TBLASTX:Maize
Start	2422	End	4040
GI	none	Score	150
Exons	2422..2550, 2426..2551, 2533..2667, 2534..2668, 2549..2668, 2550..2669, 2551..2670, 3030..3254, 3034..3255, 3037..3255, 3137..3256, 3678..4040, 3688..4023		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849
Name	OJ991119_03.0225.C4.o2.tc	Method	TBLASTX:Cress
Start	2473	End	3944
GI	none	Score	115
Exons	2473..2649, 2473..2667, 2477..2668, 3034..3255, 3035..3088, 3043..3255, 3137..3256, 3672..3920, 3678..3944, 3688..3933		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849

Name	OJ991119_03.0225.C4.o1.tw	Method	TBLASTX:Wheat
Start	3789	End	4028
GI	none	Score	97
Exons	3789..3917, 3793..3933, 3953..4024, 3954..4028, 3955..4023		

Seq. No.	38149	Seq. ID	OJ991119_03.0225.C4
Gene No.	78452	Strand	-
Start	7697	End	7849
Name	OJ991119_03.0225.C4.o2.gs	Method	GENSCAN
Start	7697	End	7849
GI	none	Score	.69
Exons	7697..7849		

Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78453	Strand	+
Start	571	End	2296
Name	OJ991119_03.0225.C5.o1.np	Method	AAT/NAP
Start	571	End	2296
GI	3551954	Score	147
Exons	571..740, 831..969, 2224..2296		
GI Descrip.	(AF082030) senescence-associated protein 5 [Hemerocallis hybrid cultivar]		

Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78454	Strand	+
Start	4403	End	5835
Name	OJ991119_03.0225.C5.o2.np	Method	AAT/NAP
Start	4391	End	5826
GI	136743	Score	1232
Exons	4391..5615, 5643..5826		
GI Descrip.	FLAVONOL 3-O-GLUCOSYLTRANSFERASE (UDP-GLUCOSE FLAVONOID 3-O-GLUCOSYLTRANSFERASE) (BRONZE-1) (BZ-MCC ALLELE) gi 82689 pir  S01052 flavonol 3-O-glucosyltransferase (EC 2.4.1.91) (allele Bz-McC) - maize gi 22205 emb CAA30761  (X07940) UDPglucose flavonoid glycosyl-transferase [Zea mays] gi 1030071 emb CAA31855  (X13500) UDPglucose:flavonol 3-O-glucosyltransferase [Zea		

Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78454	Strand	+
Start	4403	End	5835
Name	OJ991119_03.0225.C5.o2.gs	Method	GENSCAN
Start	4403	End	5835
GI	none	Score	.44
Exons	4403..5247, 5253..5835		

Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78455	Strand	-
Start	469	End	1557
Name	OJ991119_03.0225.C5.o1.gs	Method	GENSCAN
Start	469	End	1557
GI	none	Score	.74
Exons	469..981, 1360..1557		

Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78455	Strand	-
Start	469	End	1557

Name	OJ991119_03.0225.C5.o2.tc	Method	TBLASTX:Cress
Start	485	End	717
GI	none	Score	42
Exons	485..568, 570..716, 571..717		
Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78455	Strand	-
Start	469	End	1557
Name	OJ991119_03.0225.C5.o2.tm	Method	TBLASTX:Maize
Start	515	End	902
GI	none	Score	110
Exons	515..721, 556..645, 570..761, 571..747, 850..900, 861..902		
Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78456	Strand	
Start	4811	End	5164
Name	OJ991119_03.0225.C5.o3.tm	Method	TBLASTX:Maize
Start	4811	End	5164
GI	none	Score	40
Exons	4811..4840, 4811..4840, 4901..4963, 4918..4962, 4988..5164, 5071..5163		
Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78457	Strand	
Start	5199	End	5691
Name	OJ991119_03.0225.C5.o1.tc	Method	TBLASTX:Cress
Start	5199	End	5577
GI	none	Score	198
Exons	5199..5339, 5200..5358, 5409..5471, 5416..5472, 5469..5555, 5470..5577		
Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78457	Strand	
Start	5199	End	5691
Name	OJ991119_03.0225.C5.o1.ts	Method	TBLASTX:Soybean
Start	5200	End	5604
GI	none	Score	35
Exons	5200..5217, 5232..5339, 5233..5415, 5407..5604, 5415..5558, 5416..5562		
Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78457	Strand	
Start	5199	End	5691
Name	OJ991119_03.0225.C5.o1.tm	Method	TBLASTX:Maize
Start	5206	End	5691
GI	none	Score	99
Exons	5206..5352, 5398..5691, 5428..5577, 5430..5645		
Seq. No.	38150	Seq. ID	OJ991119_03.0225.C5
Gene No.	78457	Strand	
Start	5199	End	5691
Name	OJ991119_03.0225.C5.o1.tw	Method	TBLASTX:Wheat
Start	5212	End	5603
GI	none	Score	105
Exons	5212..5346, 5395..5595, 5415..5603		
Seq. No.	38151	Seq. ID	OJ991119_03.0225.C7

Gene No.	78458	Strand	-
Start	1	End	246
Name	OJ991119_03.0225.C7.o1.np	Method	AAT/NAP
Start	1	End	246
GI	4186110	Score	225
Exons	1..246		
GI Descrip.	(Y10831) putative integrase [Ralstonia eutropha]		

Seq. No.	38151	Seq. ID	OJ991119_03.0225.C7
Gene No.	78458	Strand	-
Start	1	End	246
Name	OJ991119_03.0225.C7.o1.gs	Method	GENSCAN
Start	3	End	128
GI	none	Score	.98
Exons	3..128		

Seq. No.	38152	Seq. ID	OJ991119_03.0225.C9
Gene No.	78459	Strand	+
Start	188	End	876
Name	OJ991119_03.0225.C9.o2.tm	Method	TBLASTX:Maize
Start	1	End	294
GI	none	Score	263
Exons	1..228, 2..292, 3..251, 7..294		

Seq. No.	38152	Seq. ID	OJ991119_03.0225.C9
Gene No.	78459	Strand	+
Start	188	End	876
Name	OJ991119_03.0225.C9.o1.gs	Method	GENSCAN
Start	188	End	876
GI	none	Score	.87
Exons	188..876		

Seq. No.	38152	Seq. ID	OJ991119_03.0225.C9
Gene No.	78459	Strand	+
Start	188	End	876
Name	OJ991119_03.0225.C9.o1.tm	Method	TBLASTX:Maize
Start	449	End	867
GI	none	Score	187
Exons	449..634, 450..656, 451..639, 653..856, 658..867, 661..858		

Seq. No.	38153	Seq. ID	OJ991119_03.0225.C10
Gene No.	78460	Strand	-
Start	1555	End	2344
Name	OJ991119_03.0225.C10.o1.gs	Method	GENSCAN
Start	1555	End	2341
GI	none	Score	.9
Exons	1555..1638, 1856..1986, 2172..2341		

Seq. No.	38153	Seq. ID	OJ991119_03.0225.C10
Gene No.	78460	Strand	-
Start	1555	End	2344
Name	OJ991119_03.0225.C10.o1.np	Method	AAT/NAP
Start	1588	End	2341
GI	6634777	Score	269
Exons	1588..1638, 1856..1986, 2172..2341		
GI Descrip.	(AC009917) F26G16.16 [Arabidopsis thaliana]		

Seq. No.	38153	Seq. ID	OJ991119_03.0225.C10
Gene No.	78460	Strand	-
Start	1555	End	2344
Name	OJ991119_03.0225.C10.ol.ts	Method	TBLASTX:Soybean
Start	1877	End	2344
GI	none	Score	43
Exons	1877..1933, 1889..1927, 1928..1987, 1929..1988, 1929..2000, 2173..2340, 2189..2344, 2198..2332		

Seq. No.	38154	Seq. ID	OJ991119_03.0225.C11
Gene No.	78461	Strand	-
Start	1	End	2788
Name	OJ991119_03.0225.C11.ol.np	Method	AAT/NAP
Start	1	End	683
GI	6634777	Score	213
Exons	1..25, 115..264, 461..683		
GI Descrip.	(AC009917) F26G16.16 [Arabidopsis thaliana]		

Seq. No.	38154	Seq. ID	OJ991119_03.0225.C11
Gene No.	78461	Strand	-
Start	1	End	2788
Name	OJ991119_03.0225.C11.ol.gs	Method	GENSCAN
Start	117	End	2788
GI	none	Score	.44
Exons	117..264, 461..667, 2659..2788		

Seq. No.	38154	Seq. ID	OJ991119_03.0225.C11
Gene No.	78461	Strand	-
Start	1	End	2788
Name	OJ991119_03.0225.C11.ol.tw	Method	TBLASTX:Wheat
Start	125	End	647
GI	none	Score	125
Exons	125..262, 125..265, 127..267, 409..597, 462..596, 585..647, 597..638		

Seq. No.	38155	Seq. ID	OJ991119_03.0225.C12
Gene No.	78462	Strand	+
Start	203	End	278
Name	OJ991119_03.0225.C12.ol.gp	Method	AAT/GAP
Start	203	End	278
GI	5004566	Score	114
Exons	203..278		
GI Descrip.	5042437/gb AC007789.1 AC007789.1.0e-34 Oryza sativa BAC T49B20 genomic sequence, complete sequence		

Seq. No.	38155	Seq. ID	OJ991119_03.0225.C12
Gene No.	78463	Strand	+
Start	1646	End	2012
Name	OJ991119_03.0225.C12.ol.np	Method	AAT/NAP
Start	1646	End	2012
GI	4587513	Score	208
Exons	1646..2012		
GI Descrip.	(AC007060) Contains eukaryotic protein kinase domain PF 00069. [Arabidopsis thaliana]		

Seq. No.	38155	Seq. ID	OJ991119_03.0225.C12
Gene No.	78464	Strand	-

Start	1636	End	1862
Name	OJ991119_03.0225.C12.o1.gs	Method	GENSCAN
Start	1636	End	1862
GI	none	Score	.79
Exons	1636..1862		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78465	Strand	+
Start	1	End	1469
Name	OJ991119_03.0225.C13.o1.np	Method	AAT/NAP
Start	1	End	1448
GI	5679841	Score	1442
Exons	1..1448		
GI Descrip.	(AJ243961) contains eukaryotic protein kinase domain PF 00069 [Oryza sativa]		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78465	Strand	+
Start	1	End	1469
Name	OJ991119_03.0225.C13.o1.gp	Method	AAT/GAP
Start	7	End	413
GI	5803386	Score	746
Exons	7..413		
GI Descrip.	4587513/gb AAD25744.1 AC007060_2 3.0e-17 (AC007060) Contains eukaryotic protein kinase domain PF_00069. [Arabidopsis thaliana]		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78465	Strand	+
Start	1	End	1469
Name	OJ991119_03.0225.C13.o1.gs	Method	GENSCAN
Start	96	End	1469
GI	none	Score	.51
Exons	96..1469		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78466	Strand	+
Start	1399	End	1744
Name	OJ991119_03.0225.C13.o2.gp	Method	AAT/GAP
Start	1399	End	1744
GI	5803387	Score	627
Exons	1399..1744		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78467	Strand	-
Start	2050	End	10006
Name	OJ991119_03.0225.C13.o2.gs	Method	GENSCAN
Start	2050	End	10006
GI	none	Score	.48
Exons	2050..2144, 2264..2316, 2416..2471, 2560..2618, 2843..2936, 3692..3768, 4737..4789, 5033..5088, 5175..5233, 5460..5555, 5838..5883, 6765..6911, 7551..7829, 7870..7983, 9386..9455, 9467..9535, 9786..10006		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78467	Strand	-
Start	2050	End	10006

Name	OJ991119_03.0225.C13.o2.np	Method	AAT/NAP
Start	2053	End	5613
GI	3914470	Score	481
Exons	2053..2144, 2264..2316, 2416..2471, 5175..5233, 5460..5613		
GI Descrip.	PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR gi 1321868 emb CAA66373  (X97771) 10kD PSII protein [Hordeum vulgare]		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78467	Strand	-
Start	2050	End	10006
Name	OJ991119_03.0225.C13.o3.gp	Method	AAT/GAP
Start	4205	End	4975
GI	4714864	Score	1226
Exons	4205..4612, 4737..4975		
GI Descrip.	3914470/sp Q40070 PSBR_HORVU 3.0e-16 PHOTOSYSTEM II 10 KD POLYPEPTIDE PRECURSOR >gi_1321868_emb_CAA66373_ (X97771) 10kD PSII protein [Hordeum vulgare]		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78467	Strand	-
Start	2050	End	10006
Name	OJ991119_03.0225.C13.o4.gp	Method	AAT/GAP
Start	4978	End	5633
GI	4714863	Score	1301
Exons	4978..5633		
GI Descrip.	1321867/emb X97771 HVPSII10K 5.0e-14 H.vulgare mRNA for PSII 10kD protein		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o1.ts	Method	TBLASTX:Soybean
Start	285	End	1331
GI	none	Score	74
Exons	285..350, 306..350, 354..1331, 398..481, 427..1164, 563..1330		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o1.tm	Method	TBLASTX:Maize
Start	312	End	1325
GI	none	Score	174
Exons	312..536, 440..481, 466..507, 541..900, 542..1093, 543..1325, 563..1300		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o1.tw	Method	TBLASTX:Wheat
Start	481	End	902
GI	none	Score	53
Exons	481..546, 482..526, 483..536, 542..901, 543..902, 543..788, 563..901, 831..902		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-



Start	11706	End	11963
Name	OJ991119_03.0225.C13.o1.tc	Method	TBLASTX:Cress
Start	659	End	1121
GI	none	Score	90
Exons	659..724, 660..737, 734..1117, 735..1121		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o2.tw	Method	TBLASTX:Wheat
Start	927	End	1298
GI	none	Score	154
Exons	927..1133, 938..1054, 1143..1298		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o2.tc	Method	TBLASTX:Cress
Start	2044	End	5613
GI	none	Score	105
Exons	2044..2145, 2045..2146, 2262..2318, 2263..2319, 2416..2472, 2418..2471, 2569..2619, 2573..2599, 4536..4613, 4546..4614, 4744..4794, 5027..5089, 5035..5091, 5175..5258, 5176..5238, 5458..5529, 5518..5613		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o2.ts	Method	TBLASTX:Soybean
Start	2044	End	5235
GI	none	Score	92
Exons	2044..2145, 2045..2146, 2057..2146, 2260..2319, 2262..2318, 2418..2471, 2422..2472, 2569..2619, 2573..2611, 2841..2912, 2955..2999, 4525..4593, 4536..4613, 4546..4614, 4731..4766, 4744..4794, 5027..5089, 5034..5090, 5035..5091, 5175..5225, 5175..5234, 5185..5235		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o2.tm	Method	TBLASTX:Maize
Start	2050	End	5091
GI	none	Score	97
Exons	2050..2145, 2060..2146, 2260..2319, 2262..2318, 2416..2472, 2418..2471, 4536..4613, 4546..4614, 4741..4794, 5027..5089, 5035..5091		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o3.tw	Method	TBLASTX:Wheat
Start	2050	End	5086
GI	none	Score	85
Exons	2050..2145, 2057..2146, 2260..2319, 2262..2318, 2418..2468, 2422..2469, 4536..4613, 4546..4614, 4735..4794, 4744..4794, 5027..5086, 5035..5085		

Seq. No.	38156	Seq. ID	OJ991119_03.0225.C13
Gene No.	78468	Strand	-
Start	11706	End	11963
Name	OJ991119_03.0225.C13.o3.gs	Method	GENSCAN
Start	11706	End	11963
GI	none	Score	.9
Exons	11706..11963		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78469	Strand	+
Start	729	End	1634
Name	OJ991119_03.0225.C14.o1.gs	Method	GENSCAN
Start	729	End	1634
GI	none	Score	.91
Exons	729..736, 1319..1634		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78470	Strand	+
Start	5017	End	5494
Name	OJ991119_03.0225.C14.o2.gp	Method	AAT/GAP
Start	5017	End	5494
GI	16447.1.R1084	Score	887
Exons	5017..5494		
GI Descrip.	'5042437/gb AC007789.1 AC007789 1.0e-34 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78471	Strand	-
Start	3511	End	4193
Name	OJ991119_03.0225.C14.o1.gp	Method	AAT/GAP
Start	3258	End	4193
GI	718_3.R1084	Score	1311
Exons	3258..3753, 3872..3952, 4070..4193		
GI Descrip.	'548605/sp P36886 PSAK HORVU 6.0e-63 PHOTOSYSTEM I REACTION CENTRE SUBUNIT X PRECURSOR (LIGHT-HARVESTING COMPLEX I 7 KD PROTEIN) (PSI-K) >gi_539055_pir_A48527 photosystem I protein psaK precursor - barley >gi_304220 (L12707) photosystem I PSI-K subunit [Hordeum vulgare]'		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78471	Strand	-
Start	3511	End	4193
Name	OJ991119_03.0225.C14.o2.gs	Method	GENSCAN
Start	3511	End	4147
GI	none	Score	.8
Exons	3511..3753, 3872..3952, 4070..4147		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78471	Strand	-
Start	3511	End	4193
Name	OJ991119_03.0225.C14.o1.np	Method	AAT/NAP
Start	3514	End	4147
GI	548605	Score	540
Exons	3514..3753, 3872..3952, 4070..4147		
GI Descrip.	PHOTOSYSTEM I REACTION CENTRE SUBUNIT X PRECURSOR (LIGHT-HARVESTING COMPLEX I 7 KD PROTEIN) (PSI-K) gi 539055 pir  A48527 photosystem I protein psaK precursor -		

barley gi|304220 (L12707) photosystem I PSI-K subunit [Hordeum vulgare]

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-
Start	5344	End	5808
Name	OJ991119_03.0225.C14.o1.tm	Method	TBLASTX:Maize
Start	3514	End	4172
GI	none	Score	245
Exons	3514..3753, 3587..3754, 3857..3925, 3858..3917, 3876..3929, 3914..3946, 3915..3947, 4061..4126, 4068..4118, 4125..4172		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-
Start	5344	End	5808
Name	OJ991119_03.0225.C14.o1.tc	Method	TBLASTX:Cress
Start	3529	End	3937
GI	none	Score	226
Exons	3529..3753, 3590..3754, 3869..3937		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-
Start	5344	End	5808
Name	OJ991119_03.0225.C14.o1.ts	Method	TBLASTX:Soybean
Start	3529	End	3952
GI	none	Score	213
Exons	3529..3753, 3590..3754, 3869..3952, 3876..3911		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-
Start	5344	End	5808
Name	OJ991119_03.0225.C14.o2.tm	Method	TBLASTX:Maize
Start	5067	End	5797
GI	none	Score	42
Exons	5067..5099, 5090..5155, 5112..5174, 5202..5225, 5202..5216, 5344..5526, 5345..5521, 5359..5526, 5585..5797, 5625..5759, 5626..5772		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-
Start	5344	End	5808
Name	OJ991119_03.0225.C14.o2.tc	Method	TBLASTX:Cress
Start	5336	End	5747
GI	none	Score	135
Exons	5336..5527, 5342..5512, 5344..5526, 5585..5746, 5621..5746, 5625..5747		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-
Start	5344	End	5808
Name	OJ991119_03.0225.C14.o3.gs	Method	GENSCAN
Start	5344	End	5520
GI	none	Score	.67
Exons	5344..5520		

Seq. No.	38157	Seq. ID	OJ991119_03.0225.C14
Gene No.	78472	Strand	-

Start	5344	End	5808
Name	OJ991119_03.0225.C14.o2.np	Method	AAT/NAP
Start	5347	End	5808
GI	3132477	Score	332
Exons	5347..5520, 5627..5808		
GI Descrip.	(AC003096) unknown protein [Arabidopsis thaliana]		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o1.np	Method	AAT/NAP
Start	1	End	15017
GI	3132477	Score	3120
Exons	1..35, 326..411, 635..766, 912..1067, 1463..1644, 1734..1915, 1959..2034, 2164..2371, 2455..2576, 2656..2851, 3351..3470, 3599..3672, 3757..3913, 3978..4149, 4272..4390, 4770..4932, 5443..5574, 5683..5867, 6129..6229, 7361..7493, 7831..8006, 8146..8291, 8924..9147, 9415..9516, 10857..10956, 11349..11414, 11502..11564, 11658..11723, 11804..11875, 12001..12066, 12259..12324, 12423..12889, 14982..15017		
GI Descrip.	(AC003096) unknown protein [Arabidopsis thaliana]		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o1.ts	Method	TBLASTX:Soybean
Start	347	End	7975
GI	none	Score	72
Exons	347..412, 351..413, 636..782, 637..792, 895..1047, 896..1069, 910..1077, 1004..1069, 1461..1568, 1462..1569, 2474..2578, 2696..2716, 3358..3462, 4009..4122, 7345..7503, 7844..7975		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o1.gp	Method	AAT/GAP
Start	353	End	742
GI	LIB3434-004-P1-K1-F7	Score	282
Exons	353..411, 635..742		
GI Descrip.	'3132477 1.0e-24 (AC003096) unknown protein [Arabidopsis thaliana]'		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o1.gs	Method	GENSCAN
Start	353	End	18864
GI	none	Score	.69
Exons	353..411, 635..766, 912..1067, 1463..1644, 1734..1872, 1961..2034, 2164..2371, 2455..2576, 2668..2851, 3351..3470, 3599..3672, 3757..3841, 3981..4149, 4272..4390, 4812..4991, 5457..5574, 5683..5867, 6000..6047, 6129..6229, 7295..7493, 7831..8046, 8156..8266, 8605..8719, 8924..9147, 9415..9532, 11804..11875, 12001..12066, 12259..12324, 12423..13114, 13209..13383, 13941..14033, 15837..15912, 18752..18864		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
----------	-------	---------	----------------------

Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o1.tc	Method	TBLASTX:Cress
Start	648	End	8229
GI	none	Score	178
Exons	648..749, 3379..3459, 7833..8009, 7838..8008, 8139..8228, 8146..8229		

  

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o1.tm	Method	TBLASTX:Maize
Start	669	End	8005
GI	none	Score	88
Exons	669..752, 698..766, 699..782, 898..1086, 910..1077, 1461..1643, 1462..1644, 1462..1644, 1463..1645, 1732..1875, 1733..1885, 1734..1880, 1942..2031, 1962..2045, 1965..2033, 2131..2373, 2165..2374, 2165..2374, 2175..2378, 2320..2376, 2438..2602, 2441..2578, 2446..2583, 3982..4146, 4275..4400, 4762..4962, 5755..5874, 7345..7503, 7360..7431, 7465..7503, 7865..8005		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o2.gp	Method	AAT/GAP
Start	1812	End	2383
GI	428085	Score	612
Exons	1812..1872, 1961..2034, 2164..2383		
GI Descrip.	3132477 1.0e-24 (AC003096) unknown protein [Arabidopsis thaliana]		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o3.gp	Method	AAT/GAP
Start	3595	End	4810
GI	uC-osflcyp021b04b1	Score	808
Exons	3595..3672, 3757..3841, 3980..4149, 4272..4390, 4770..4810		
GI Descrip.	'3132477 4.0e-34 (AC003096) unknown protein [Arabidopsis thaliana]'		

Seq. No.	38158	Seq. ID	OJ991119_03.0225.C15
Gene No.	78473	Strand	-
Start	1	End	18864
Name	OJ991119_03.0225.C15.o2.tm	Method	TBLASTX:Maize
Start	5297	End	5752
GI	none	Score	59
Exons	5297..5344, 5299..5346, 5305..5349, 5306..5356, 5455..5574, 5457..5576, 5457..5576, 5458..5577, 5678..5752		

Seq. No.	38159	Seq. ID	OJ991119_03.0225.C16
Gene No.	78474	Strand	+
Start	464	End	551
Name	OJ991119_03.0225.C16.o1.gs	Method	GENSCAN
Start	464	End	551
GI	none	Score	.96
Exons	464..551		

Seq. No.	38160	Seq. ID	OJ991119_03.0225.C18
Gene No.	78475	Strand	+
Start	812	End	2478
Name	OJ991119_03.0225.C18.o1.np	Method	AAT/NAP
Start	812	End	2478
GI	3420004	Score	460
Exons	812..1298, 1967..2478		
GI Descrip.	(AF000305) steroid sulfotransferase 1 [Brassica napus]		

Seq. No.	38160	Seq. ID	OJ991119_03.0225.C18
Gene No.	78475	Strand	+
Start	812	End	2478
Name	OJ991119_03.0225.C18.o1.tm	Method	TBLASTX:Maize
Start	1965	End	2276
GI	none	Score	44
Exons	1965..2018, 2031..2276, 2036..2176, 2055..2276		

Seq. No.	38160	Seq. ID	OJ991119_03.0225.C18
Gene No.	78475	Strand	+
Start	812	End	2478
Name	OJ991119_03.0225.C18.o1.tc	Method	TBLASTX:Cress
Start	2043	End	2448
GI	none	Score	228
Exons	2043..2306, 2343..2411, 2360..2419, 2419..2448		

Seq. No.	38161	Seq. ID	OJ991119_03.0225.C19
Gene No.	78476	Strand	+
Start	709	End	989
Name	OJ991119_03.0225.C19.o1.gs	Method	GENSCAN
Start	709	End	989
GI	none	Score	.91
Exons	709..989		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78477	Strand	+
Start	956	End	1248
Name	OJ991119_03.0225.C20.o1.gs	Method	GENSCAN
Start	956	End	1248
GI	none	Score	.98
Exons	956..1206, 1242..1248		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78478	Strand	+
Start	1887	End	2338
Name	OJ991119_03.0225.C20.o2.gs	Method	GENSCAN
Start	1887	End	2338
GI	none	Score	.76
Exons	1887..2119, 2230..2338		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78479	Strand	+
Start	8502	End	14263
Name	OJ991119_03.0225.C20.o2.np	Method	AAT/NAP
Start	8502	End	14263
GI	5295971	Score	2980
Exons	8502..8542, 8643..8739, 9999..14263		

GI Descrip. (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78479	Strand	+
Start	8502	End	14263
Name	OJ991119_03.0225.C20.o4.gs	Method	GENSCAN
Start	9956	End	14257
GI	none	Score	.99
Exons	9956..14257		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78480	Strand	-
Start	4001	End	9996
Name	OJ991119_03.0225.C20.o1.np	Method	AAT/NAP
Start	4001	End	9996
GI	6466937	Score	2136
Exons	4001..8234, 9965..9996		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o2.tc	Method	TBLASTX:Cress
Start	1907	End	2329
GI	none	Score	159
Exons	1907..2098, 1908..2099, 2117..2173, 2119..2172, 2195..2326, 2210..2329		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o4.tm	Method	TBLASTX:Maize
Start	3999	End	9073
GI	none	Score	41
Exons	3999..4052, 4003..4053, 4103..4204, 4104..4325, 4105..4260, 4356..4541, 4357..4539, 4357..4554, 4529..4726, 9020..9073		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o5.tw	Method	TBLASTX:Wheat
Start	4339	End	4654
GI	none	Score	143
Exons	4339..4539, 4344..4541, 4376..4546, 4529..4600, 4541..4654		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o6.tw	Method	TBLASTX:Wheat
Start	4718	End	5110
GI	none	Score	81
Exons	4718..5110, 4731..4898		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
----------	-------	---------	----------------------

Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o1.tm	Method	TBLASTX:Maize
Start	4728	End	5365
GI	none	Score	164
Exons	4728..4919, 4730..5365, 4739..5038, 4968..5264		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o4.ts	Method	TBLASTX:Soybean
Start	4958	End	5329
GI	none	Score	152
Exons	4958..5329, 4968..5228		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o2.tw	Method	TBLASTX:Wheat
Start	5198	End	5596
GI	none	Score	161
Exons	5198..5596, 5198..5593		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o8.tm	Method	TBLASTX:Maize
Start	5366	End	5791
GI	none	Score	60
Exons	5366..5596, 5375..5563, 5582..5791, 5682..5789		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o2.tm	Method	TBLASTX:Maize
Start	5792	End	6310
GI	none	Score	347
Exons	5792..6310, 5889..6308, 5948..6283		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o7.tw	Method	TBLASTX:Wheat
Start	5976	End	6319
GI	none	Score	155
Exons	5976..6254, 6023..6319		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o5.ts	Method	TBLASTX:Soybean
Start	6068	End	6415
GI	none	Score	111
Exons	6068..6415, 6069..6287		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-



Start	14738	End	15124
Name	OJ991119_03.0225.C20.o3.tm	Method	TBLASTX:Maize
Start	6338	End	6816
GI	none	Score	278
Exons	6338..6814, 6351..6809, 6356..6811, 6490..6816		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o3.tw	Method	TBLASTX:Wheat
Start	6392	End	6835
GI	none	Score	194
Exons	6392..6835, 6396..6794		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o6.ts	Method	TBLASTX:Soybean
Start	6524	End	6832
GI	none	Score	203
Exons	6524..6832		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o12.tm	Method	TBLASTX:Maize
Start	7003	End	7632
GI	none	Score	111
Exons	7003..7083, 7168..7416, 7519..7632		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o13.tm	Method	TBLASTX:Maize
Start	9858	End	10236
GI	none	Score	47
Exons	9858..9968, 9900..9926, 9998..10234, 10024..10236		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o5.tc	Method	TBLASTX:Cress
Start	10121	End	10411
GI	none	Score	183
Exons	10121..10411, 10183..10335		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o9.tw	Method	TBLASTX:Wheat
Start	10130	End	10525
GI	none	Score	235
Exons	10130..10525, 10232..10468		
Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124

Name	OJ991119_03.0225.C20.o7.tm	Method	TBLASTX:Maize
Start	10250	End	10639
GI	none	Score	200
Exons	10250..10453, 10255..10449, 10465..10521, 10466..10576, 10556..10639		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o11.tm	Method	TBLASTX:Maize
Start	11056	End	11467
GI	none	Score	195
Exons	11056..11232, 11057..11275, 11336..11467		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o10.tw	Method	TBLASTX:Wheat
Start	11077	End	11533
GI	none	Score	176
Exons	11077..11280, 11078..11323, 11339..11446, 11447..11533		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o7.ts	Method	TBLASTX:Soybean
Start	11471	End	11800
GI	none	Score	197
Exons	11471..11800, 11503..11664		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o1.tw	Method	TBLASTX:Wheat
Start	11621	End	12166
GI	none	Score	339
Exons	11621..12067, 11821..12060, 12071..12166		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o6.tm	Method	TBLASTX:Maize
Start	11813	End	12238
GI	none	Score	376
Exons	11813..12154, 11821..12144, 12167..12238		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o2.ts	Method	TBLASTX:Soybean
Start	11840	End	12316
GI	none	Score	394
Exons	11840..12316, 11848..12141		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124

Name	OJ991119_03.0225.C20.o3.tc	Method	TBLASTX:Cress
Start	11855	End	12304
GI	none	Score	281
Exons	11855..12304, 11857..11940, 11965..12138, 12197..12301		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o3.ts	Method	TBLASTX:Soybean
Start	12728	End	13216
GI	5509260	Score	349
Exons	12728..13216, 12793..12966, 13051..13188		
GI Descrip.	-		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o9.tm	Method	TBLASTX:Maize
Start	12746	End	13060
GI	none	Score	310
Exons	12746..13060, 12764..13045		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o4.tc	Method	TBLASTX:Cress
Start	12835	End	13099
GI	none	Score	216
Exons	12835..12966, 12836..13099		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o4.tw	Method	TBLASTX:Wheat
Start	12880	End	13435
GI	none	Score	245
Exons	12880..12966, 12881..13225, 12881..13228, 13211..13435		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o10.tm	Method	TBLASTX:Maize
Start	13262	End	13525
GI	none	Score	245
Exons	13262..13525, 13264..13524		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o5.tm	Method	TBLASTX:Maize
Start	13529	End	13981
GI	none	Score	421
Exons	13529..13981, 13564..13914, 13781..13960		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124

Name	OJ991119_03.0225.C20.o1.tc	Method	TBLASTX:Cress
Start	13567	End	14230
GI	none	Score	271
Exons	13567..13836, 13568..13861, 13865..13981, 13979..14230, 14021..14173, 14023..14178		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o1.ts	Method	TBLASTX:Soybean
Start	13589	End	14239
GI	none	Score	151
Exons	13589..13750, 13618..13755, 13763..14239, 14050..14178		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o8.tw	Method	TBLASTX:Wheat
Start	13757	End	14200
GI	none	Score	144
Exons	13757..13984, 14006..14200, 14023..14199		

Seq. No.	38162	Seq. ID	OJ991119_03.0225.C20
Gene No.	78481	Strand	-
Start	14738	End	15124
Name	OJ991119_03.0225.C20.o5.gs	Method	GENSCAN
Start	14738	End	15124
GI	none	Score	.95
Exons	14738..15124		

Seq. No.	38163	Seq. ID	OJ991119_03.0225.C21
Gene No.	78482	Strand	-
Start	438	End	927
Name	OJ991119_03.0225.C21.o1.gs	Method	GENSCAN
Start	438	End	927
GI	none	Score	.88
Exons	438..608, 651..807, 917..927		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o1.np	Method	AAT/NAP
Start	1	End	1060
GI	6742729	Score	1463
Exons	1..1060		

GI Descrip... (AF121139) RIM2 protein [Oryza sativa]

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o2.tw	Method	TBLASTX:Wheat
Start	2	End	404
GI	none	Score	43
Exons	2..43, 3..44, 68..289, 69..293, 124..294, 267..404, 268..402		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-

Start	1	End	1232
Name	OJ991109_08.0223.C2.o1.gs	Method	GENSCAN
Start	24	End	1140
GI	none	Score	.86
Exons	24..558, 1061..1140		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o2.ts	Method	TBLASTX:Soybean
Start	405	End	611
GI	none	Score	59
Exons	405..611, 426..488, 439..537		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o1.tm	Method	TBLASTX:Maize
Start	453	End	904
GI	none	Score	56
Exons	453..647, 657..776, 657..794, 658..786, 776..904, 776..895		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o1.tw	Method	TBLASTX:Wheat
Start	487	End	957
GI	none	Score	178
Exons	487..693, 492..716, 691..777, 696..776, 696..794, 697..801, 794..898, 798..899, 805..957, 896..952		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o1.tc	Method	TBLASTX:Cress
Start	782	End	1102
GI	none	Score	78
Exons	782..1102, 800..925, 936..1079		

Seq. No.	38164	Seq. ID	OJ991109_08.0223.C2
Gene No.	78483	Strand	-
Start	1	End	1232
Name	OJ991109_08.0223.C2.o1.ts	Method	TBLASTX:Soybean
Start	821	End	1232
GI	none	Score	107
Exons	821..1117, 834..1082, 1112..1174, 1175..1204, 1200..1232		

Seq. No.	38165	Seq. ID	OJ991109_08.0223.C3
Gene No.	78484	Strand	+
Start	217	End	316
Name	OJ991109_08.0223.C3.o1.gs	Method	GENSCAN
Start	217	End	316
GI	none	Score	.7
Exons	217..316		

Seq. No.	38165	Seq. ID	OJ991109_08.0223.C3
Gene No.	78485	Strand	-

Start	1	End	1424
Name	OJ991109_08.0223.C3.o1.np	Method	AAT/NAP
Start	1	End	1424
GI	5852182	Score	344
Exons	1..282, 1361..1424		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	38165	Seq. ID	OJ991109_08.0223.C3
Gene No.	78486	Strand	-
Start	5801	End	11768
Name	OJ991109_08.0223.C3.o3.gs	Method	GENSCAN
Start	5801	End	11768
GI	none	Score	.4
Exons	5801..5880, 9271..9319, 9541..9651, 11657..11768		

Seq. No.	38166	Seq. ID	OJ991109_08.0223.C4
Gene No.	78487	Strand	+
Start	2909	End	4138
Name	OJ991109_08.0223.C4.o2.gs	Method	GENSCAN
Start	2909	End	4138
GI	none	Score	.72
Exons	2909..3002, 3245..3488, 3733..4138		

Seq. No.	38166	Seq. ID	OJ991109_08.0223.C4
Gene No.	78487	Strand	+
Start	2909	End	4138
Name	OJ991109_08.0223.C4.o1.np	Method	AAT/NAP
Start	3223	End	3516
GI	6539588	Score	150
Exons	3223..3516		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	38166	Seq. ID	OJ991109_08.0223.C4
Gene No.	78488	Strand	+
Start	4525	End	4962
Name	OJ991109_08.0223.C4.o3.gs	Method	GENSCAN
Start	4525	End	4938
GI	none	Score	.8
Exons	4525..4784, 4911..4938		

Seq. No.	38166	Seq. ID	OJ991109_08.0223.C4
Gene No.	78488	Strand	+
Start	4525	End	4962
Name	OJ991109_08.0223.C4.o2.np	Method	AAT/NAP
Start	4766	End	4962
GI	3645899	Score	101
Exons	4766..4962		
GI Descrip.	(U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	38167	Seq. ID	OJ991109_08.0223.C5
Gene No.	78489	Strand	+
Start	1762	End	7539
Name	OJ991109_08.0223.C5.o1.gs	Method	GENSCAN
Start	1762	End	7276
GI	none	Score	.59
Exons	1762..1807, 4865..4967, 5721..5869, 7029..7276		

Seq. No.	38167	Seq. ID	OJ991109_08.0223.C5
Gene No.	78489	Strand	+
Start	1762	End	7539
Name	OJ991109_08.0223.C5.o1.np	Method	AAT/NAP
Start	3795	End	7539
GI	4680203	Score	535
Exons	3795..3856, 5538..6205, 7378..7539		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	38168	Seq. ID	OJ991109_08.0223.C6
Gene No.	78490	Strand	-
Start	4804	End	5349
Name	OJ991109_08.0223.C6.o2.gs	Method	GENSCAN
Start	4804	End	5349
GI	none	Score	.47
Exons	4804..4875, 5191..5349		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78491	Strand	+
Start	1322	End	1840
Name	OJ991109_08.0223.C7.o1.np	Method	AAT/NAP
Start	913	End	1840
GI	6539588	Score	202
Exons	913..939, 1617..1840		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78491	Strand	+
Start	1322	End	1840
Name	OJ991109_08.0223.C7.o1.gs	Method	GENSCAN
Start	1322	End	1747
GI	none	Score	.55
Exons	1322..1379, 1617..1747		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78492	Strand	+
Start	5164	End	8729
Name	OJ991109_08.0223.C7.o3.gs	Method	GENSCAN
Start	5164	End	8729
GI	none	Score	.41
Exons	5164..5195, 5327..5445, 6002..6383, 6452..6675, 6764..7149, 7182..7239, 7296..8008, 8292..8729		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78493	Strand	-
Start	1132	End	3936
Name	OJ991109_08.0223.C7.o2.np	Method	AAT/NAP
Start	1132	End	3936
GI	5852179	Score	277
Exons	1132..1245, 2570..2811, 2886..3086, 3916..3936		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78493	Strand	-
Start	1132	End	3936
Name	OJ991109_08.0223.C7.o2.gs	Method	GENSCAN
Start	2612	End	2981

GI none  
Exons 2612..2839, 2859..2981

Score .83

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o4.gs	Method	GENSCAN
Start	9193	End	13384
GI	none	Score	.44
Exons	9193..9741, 10368..10575, 10641..10859, 11178..12076, 12248..12870, 12881..13080, 13110..13384		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o3.np	Method	AAT/NAP
Start	9196	End	15200
GI	4378066	Score	2967
Exons	9196..14196, 14879..15200		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o5.tm	Method	TBLASTX:Maize
Start	9247	End	9507
GI	none	Score	80
Exons	9247..9507, 9272..9439		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o6.tm	Method	TBLASTX:Maize
Start	9514	End	9756
GI	none	Score	42
Exons	9514..9756, 9515..9574, 9653..9751		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o2.ts	Method	TBLASTX:Soybean
Start	9771	End	10145
GI	none	Score	51
Exons	9771..9995, 9778..9963, 10002..10145, 10003..10116		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o3.tm	Method	TBLASTX:Maize
Start	9786	End	10148
GI	none	Score	180
Exons	9786..10148, 9787..9975, 9994..10056		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-



Start 9193  
Name OJ991109\_08.0223.C7.o4.tw  
Start 9918  
GI none  
Exons 9918..10307

End 15840  
Method TBLASTX:Wheat  
End 10307  
Score 232

Seq. No. 38169  
Gene No. 78494  
Start 9193  
Name OJ991109\_08.0223.C7.o4.tm  
Start 10149  
GI none  
Exons 10149..10415, 10150..10290

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840  
Method TBLASTX:Maize  
End 10415  
Score 77

Seq. No. 38169  
Gene No. 78494  
Start 9193  
Name OJ991109\_08.0223.C7.o3.tw  
Start 10754  
GI none  
Exons 10754..10900, 10755..10895, 10895..11161, 10935..11078

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840  
Method TBLASTX:Wheat  
End 11161  
Score 69

Seq. No. 38169  
Gene No. 78494  
Start 9193  
Name OJ991109\_08.0223.C7.o1.ts  
Start 11303  
GI none  
Exons 11303..11686, 11493..11633

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840  
Method TBLASTX:Soybean  
End 11686  
Score 68

Seq. No. 38169  
Gene No. 78494  
Start 9193  
Name OJ991109\_08.0223.C7.o2.tw  
Start 11312  
GI none  
Exons 11312..11731, 11418..11678

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840  
Method TBLASTX:Wheat  
End 11731  
Score 173

Seq. No. 38169  
Gene No. 78494  
Start 9193  
Name OJ991109\_08.0223.C7.o2.tm  
Start 11405  
GI none  
Exons 11405..11788, 11418..11678

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840  
Method TBLASTX:Maize  
End 11788  
Score 167

Seq. No. 38169  
Gene No. 78494  
Start 9193  
Name OJ991109\_08.0223.C7.o1.tm  
Start 11816  
GI none  
Exons 11816..12172, 11817..12173

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840  
Method TBLASTX:Maize  
End 12173  
Score 242

Seq. No. 38169  
Gene No. 78494  
Start 9193

Seq. ID OJ991109\_08.0223.C7  
Strand -  
End 15840

Name	OJ991109_08.0223.C7.o1.tw	Method	TBLASTX:Wheat
Start	11846	End	12301
GI	none	Score	292
Exons	11846..12301, 11847..12275, 11882..12277		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o5.tw	Method	TBLASTX:Wheat
Start	12506	End	12865
GI	none	Score	83
Exons	12506..12727, 12507..12728, 12734..12865		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o5.gs	Method	GENSCAN
Start	13532	End	15840
GI	none	Score	.52
Exons	13532..14377, 14407..14661, 14723..14859, 14885..15271, 15456..15840		

Seq. No.	38169	Seq. ID	OJ991109_08.0223.C7
Gene No.	78494	Strand	-
Start	9193	End	15840
Name	OJ991109_08.0223.C7.o6.tw	Method	TBLASTX:Wheat
Start	13712	End	14002
GI	none	Score	179
Exons	13712..14002		

Seq. No.	38170	Seq. ID	OJ991109_08.0223.C8
Gene No.	78495	Strand	+
Start	5254	End	9549
Name	OJ991109_08.0223.C8.o2.gs	Method	GENSCAN
Start	5254	End	7371
GI	none	Score	.75
Exons	5254..5361, 6638..6901, 6976..7371		

Seq. No.	38170	Seq. ID	OJ991109_08.0223.C8
Gene No.	78495	Strand	+
Start	5254	End	9549
Name	OJ991109_08.0223.C8.o1.np	Method	AAT/NAP
Start	6611	End	8265
GI	6539588	Score	202
Exons	6611..6913, 8230..8265		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	38170	Seq. ID	OJ991109_08.0223.C8
Gene No.	78495	Strand	+
Start	5254	End	9549
Name	OJ991109_08.0223.C8.o3.gs	Method	GENSCAN
Start	8014	End	9549
GI	none	Score	.52
Exons	8014..8793, 9115..9295, 9482..9549		

Seq. No.	38170	Seq. ID	OJ991109_08.0223.C8
Gene No.	78496	Strand	-

Start	885	End	3371
Name	OJ991109_08.0223.C8.o1.gs	Method	GENSCAN
Start	885	End	3371
GI	none	Score	.85
Exons	885..1082, 1156..1266, 1506..1670, 2888..2959, 3369..3371		

Seq. No.	38171	Seq. ID	OJ991109_08.0223.C9
Gene No.	78497	Strand	-
Start	192	End	353
Name	OJ991109_08.0223.C9.o1.gs	Method	GENSCAN
Start	192	End	353
GI	none	Score	.71
Exons	192..353		

Seq. No.	38172	Seq. ID	OJ991109_08.0223.C10
Gene No.	78498	Strand	+
Start	1	End	705
Name	OJ991109_08.0223.C10.o1.np	Method	AAT/NAP
Start	1	End	705
GI	4416302	Score	260
Exons	1..397, 605..705		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	38172	Seq. ID	OJ991109_08.0223.C10
Gene No.	78498	Strand	+
Start	1	End	705
Name	OJ991109_08.0223.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	399
GI	none	Score	227
Exons	1..135, 2..232, 14..148, 220..261, 247..399		

Seq. No.	38172	Seq. ID	OJ991109_08.0223.C10
Gene No.	78498	Strand	+
Start	1	End	705
Name	OJ991109_08.0223.C10.o1.tw	Method	TBLASTX:Wheat
Start	2	End	157
GI	none	Score	172
Exons	2..157, 4..132, 5..136		

Seq. No.	38172	Seq. ID	OJ991109_08.0223.C10
Gene No.	78498	Strand	+
Start	1	End	705
Name	OJ991109_08.0223.C10.o1.ts	Method	TBLASTX:Soybean
Start	13	End	399
GI	none	Score	154
Exons	13..231, 14..232, 271..399		

Seq. No.	38172	Seq. ID	OJ991109_08.0223.C10
Gene No.	78498	Strand	+
Start	1	End	705
Name	OJ991109_08.0223.C10.o1.gs	Method	GENSCAN
Start	439	End	640
GI	none	Score	.61
Exons	439..640		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78499	Strand	+

Start	1	End	1698
Name	OJ991109_08.0223.C11.o1.np		
Start	1	End	1698
GI	6630685	Score	699
Exons	1..665, 1480..1698		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78500	Strand	+
Start	12506	End	13207
Name	OJ991109_08.0223.C11.o3.gs	Method	GENSCAN
Start	12506	End	13207
GI	none	Score	.76
Exons	12506..12640, 12785..12999, 13081..13207		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78501	Strand	-
Start	31	End	1561
Name	OJ991109_08.0223.C11.o1.gs	Method	GENSCAN
Start	31	End	1561
GI	none	Score	.71
Exons	31..202, 630..661, 717..928, 1161..1365, 1518..1561		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78502	Strand	-
Start	8889	End	9060
Name	OJ991109_08.0223.C11.o1.gp	Method	AAT/GAP
Start	8889	End	9060
GI	10431_1.R1084	Score	301
Exons	8889..9060		
GI Descrip.	'1256198/dbj D63711 RICTNR3 4.0e-82 Rice transposon Tnr3 DNA, complete sequence'		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78503	Strand	-
Start	10315	End	10640
Name	OJ991109_08.0223.C11.o2.gp	Method	AAT/GAP
Start	10315	End	10640
GI	4716319	Score	546
Exons	10315..10640		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o1.tw	Method	TBLASTX:Wheat
Start	82	End	465
GI	none	Score	47
Exons	82..168, 208..465		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o1.tm	Method	TBLASTX:Maize
Start	211	End	1680
GI	none	Score	388
Exons	211..660, 219..665, 1471..1572, 1472..1612, 1606..1680,		

1608..1670

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o1.ts	Method	TBLASTX:Soybean
Start	229	End	618
GI	none	Score	240
Exons	229..618, 234..575		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o2.np	Method	AAT/NAP
Start	12114	End	16849
GI	2415368	Score	34
Exons	12114..12191, 14942..15171, 16796..16849		
GI Descrip.	(AF015276) protease/reverse transcriptase [Volvox carteri]		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o4.gs	Method	GENSCAN
Start	14423	End	18283
GI	none	Score	.62
Exons	14423..14596, 14625..14860, 15041..15305, 16176..16370, 16796..16895, 17267..17433, 17880..18117, 18156..18283		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o3.np	Method	AAT/NAP
Start	17997	End	20348
GI	4151193	Score	59
Exons	17997..18117, 20290..20348		
GI Descrip.	(AF049905) copalyl diphosphate synthase 1; CPS1 [Cucurbita maxima]		

Seq. No.	38173	Seq. ID	OJ991109_08.0223.C11
Gene No.	78504	Strand	-
Start	12114	End	20348
Name	OJ991109_08.0223.C11.o5.gs	Method	GENSCAN
Start	19751	End	20136
GI	none	Score	.89
Exons	19751..19808, 19850..20136		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o1.tm	Method	TBLASTX:Maize
Start	971	End	1297
GI	none	Score	83
Exons	971..1093, 975..1112, 1181..1297, 1197..1292		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527

Name	OJ991109_08.0223.C12.o1.gs	Method	GENSCAN
Start	977	End	2176
GI	none	Score	.89
Exons	977..1079, 1182..1281, 2113..2176		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o1.np	Method	AAT/NAP
Start	978	End	6918
GI	6009478	Score	946
Exons	978..1079, 1182..1336, 1848..2007, 5358..5490, 5568..5691, 6005..6219, 6318..6510, 6628..6918		
GI Descrip.	(AB015675) copalyl diphosphate synthase [Lycopersicon esculentum]		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o1.tc	Method	TBLASTX:Cress
Start	980	End	6901
GI	none	Score	66
Exons	980..1081, 995..1093, 1181..1324, 1182..1298, 5382..5495, 5591..5692, 6006..6215, 6007..6222, 6105..6233, 6317..6502, 6321..6503, 6617..6793, 6645..6794, 6806..6901, 6810..6899		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o3.tm	Method	TBLASTX:Maize
Start	1438	End	1781
GI	none	Score	126
Exons	1438..1653, 1695..1781, 1700..1777		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o1.tw	Method	TBLASTX:Wheat
Start	1507	End	1868
GI	none	Score	70
Exons	1507..1653, 1638..1868, 1716..1868		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o2.gs	Method	GENSCAN
Start	3501	End	10527
GI	none	Score	.58
Exons	3501..3824, 4202..4281, 5378..5490, 5568..5691, 6005..6171, 6318..6501, 6619..6919, 8086..8197, 8359..8619, 8670..8920, 10423..10527		

Seq. No.	38174	Seq. ID	OJ991109_08.0223.C12
Gene No.	78505	Strand	-
Start	977	End	10527
Name	OJ991109_08.0223.C12.o2.tm	Method	TBLASTX:Maize
Start	5366	End	6200

GI	none	Score	80
Exons	5366..5494, 5379..5495, 5379..5495, 5380..5496, 5473..5511, 5589..5693, 5591..5692, 6006..6200, 6007..6174		

Seq. No.	38175	Seq. ID	OJ991109_08.0223.C13
Gene No.	78506	Strand	+
Start	909	End	1689
Name	OJ991109_08.0223.C13.o1.gs	Method	GENSCAN
Start	909	End	1689
GI	none	Score	.65
Exons	909..1015, 1344..1499, 1554..1689		

Seq. No.	38175	Seq. ID	OJ991109_08.0223.C13
Gene No.	78507	Strand	-
Start	64	End	4730
Name	OJ991109_08.0223.C13.o1.np	Method	AAT/NAP
Start	64	End	4730
GI	5852181	Score	128
Exons	64..162, 1336..1640, 4684..4730		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	38175	Seq. ID	OJ991109_08.0223.C13
Gene No.	78507	Strand	-
Start	64	End	4730
Name	OJ991109_08.0223.C13.o2.gs	Method	GENSCAN
Start	3584	End	3760
GI	none	Score	.87
Exons	3584..3760		

Seq. No.	38176	Seq. ID	OJ991109_08.0223.C14
Gene No.	78508	Strand	+
Start	441	End	839
Name	OJ991109_08.0223.C14.o1.gp	Method	AAT/GAP
Start	441	End	839
GI	none	Score	749
Exons	441..839		

Seq. No.	38176	Seq. ID	OJ991109_08.0223.C14
Gene No.	78509	Strand	+
Start	999	End	1370
Name	OJ991109_08.0223.C14.o2.gp	Method	AAT/GAP
Start	999	End	1370
GI	3763187	Score	617
Exons	999..1370		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o1.np	Method	AAT/NAP
Start	1	End	3692
GI	3461840	Score	595
Exons	1..32, 1695..3371, 3669..3692		
GI Descrip.	(AC005315) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-

Start	1	End	3692
Name	OJ991109_08.0223.C15.o1.gs	Method	GENSCAN
Start	871	End	3172
GI	none	Score	.41
Exons	871..984, 1401..1652, 2523..2693, 2772..3172		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o1.tw	Method	TBLASTX:Wheat
Start	1252	End	1628
GI	none	Score	157
Exons	1252..1503, 1254..1628		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o2.tm	Method	TBLASTX:Maize
Start	1347	End	1815
GI	none	Score	43
Exons	1347..1415, 1372..1404, 1446..1814, 1453..1815		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o2.tw	Method	TBLASTX:Wheat
Start	1716	End	2268
GI	none	Score	91
Exons	1716..1814, 1860..1892, 1893..2267, 1894..2268		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o3.tm	Method	TBLASTX:Maize
Start	1848	End	2045
GI	none	Score	59
Exons	1848..2045, 1917..2021		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o1.ts	Method	TBLASTX:Soybean
Start	1890	End	2417
GI	none	Score	54
Exons	1890..2075, 2064..2291, 2361..2417		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o1.tm	Method	TBLASTX:Maize
Start	2049	End	2984
GI	none	Score	73
Exons	2049..2783, 2182..2295, 2332..2499, 2524..2631, 2767..2961, 2835..2984		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-



Start	1	End	3692
Name	OJ991109_08.0223.C15.o3.tw	Method	TBLASTX:Wheat
Start	2358	End	2684
GI	none	Score	114
Exons	2358..2498, 2503..2643, -2508..2684		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o4.tw	Method	TBLASTX:Wheat
Start	2697	End	2936
GI	none	Score	170
Exons	2697..2936, 2716..2910, 2837..2914		

Seq. No.	38177	Seq. ID	OJ991109_08.0223.C15
Gene No.	78510	Strand	-
Start	1	End	3692
Name	OJ991109_08.0223.C15.o4.tm	Method	TBLASTX:Maize
Start	3069	End	3254
GI	none	Score	83
Exons	3069..3254, 3082..3243		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78511	Strand	+
Start	389	End	1085
Name	OJ991109_08.0223.C16.o1.gs	Method	GENSCAN
Start	389	End	1085
GI	none	Score	.71
Exons	389..546, 965..1085		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78512	Strand	+
Start	3470	End	4219
Name	OJ991109_08.0223.C16.o2.gs	Method	GENSCAN
Start	3470	End	4219
GI	none	Score	.88
Exons	3470..3671, 4101..4219		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78513	Strand	+
Start	8799	End	11250
Name	OJ991109_08.0223.C16.o4.gs	Method	GENSCAN
Start	8799	End	11250
GI	none	Score	.49
Exons	8799..8980, 10414..10508, 10952..11250		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78514	Strand	-
Start	671	End	2691
Name	OJ991109_08.0223.C16.o1.np	Method	AAT/NAP
Start	671	End	2691
GI	6721512	Score	102
Exons	671..872, 900..1013, 2644..2691		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78515	Strand	-

Start	5177	End	8142
Name	OJ991109_08.0223.C16.o3.gs	Method	GENSCAN
Start	5177	End	8142
GI	none	Score	.77
Exons	5177..5354, 7574..7736, 7830..8142		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o5.gs	Method	GENSCAN
Start	11674	End	15696
GI	none	Score	.65
Exons	11674..11678, 11845..11942, 12246..12435, 12577..12687, 12868..13017, 13246..13744, 13778..14094, 14379..14682, 14704..15102, 15286..15696		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o2.np	Method	AAT/NAP
Start	11726	End	16750
GI	6623973	Score	2527
Exons	11726..15632, 16726..16750		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o1.tm	Method	TBLASTX:Maize
Start	11735	End	12158
GI	none	Score	311
Exons	11735..12157, 11739..12158		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o2.tc	Method	TBLASTX:Cress
Start	11735	End	12337
GI	none	Score	65
Exons	11735..11947, 11963..12100, 12110..12214, 12209..12337		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o3.ts	Method	TBLASTX:Soybean
Start	11738	End	12136
GI	none	Score	52
Exons	11738..11851, 11748..11843, 11861..12136, 11864..12133		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o4.tw	Method	TBLASTX:Wheat
Start	11762	End	12215
GI	none	Score	62
Exons	11762..11962, 11763..11951, 11978..12184, 11981..12184,		

11994..12215

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o2.tm	Method	TBLASTX:Maize
Start	12221	End	12659
GI	none	Score	200
Exons	12221..12526, 12223..12537, 12231..12524, 12239..12538, 12503..12658, 12570..12659		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o1.tw	Method	TBLASTX:Wheat
Start	12311	End	13090
GI	none	Score	67
Exons	12311..12766, 12555..12767, 12761..13090, 12777..13088		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o3.tm	Method	TBLASTX:Maize
Start	12665	End	13094
GI	none	Score	100
Exons	12665..13093, 12798..13094		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o1.ts	Method	TBLASTX:Soybean
Start	12679	End	13069
GI	none	Score	119
Exons	12679..12945, 12692..13069, 12721..12945, 12777..13067		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o3.tc	Method	TBLASTX:Cress
Start	12887	End	13093
GI	none	Score	65
Exons	12887..13093, 12921..13088		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o3.tw	Method	TBLASTX:Wheat
Start	13091	End	13361
GI	none	Score	205
Exons	13091..13360, 13092..13361		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o1.tc	Method	TBLASTX:Cress
Start	13451	End	13993
GI	none	Score	171

Exons	13451..13699, 13715..13993		
Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o2.ts	Method	TBLASTX:Soybean
Start	13574	End	14026
GI	none	Score	125
Exons	13574..13711, 13697..14026, 13698..14018		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o2.tw	Method	TBLASTX:Wheat
Start	13595	End	14260
GI	none	Score	34
Exons	13595..13699, 13716..13775, 13717..13776, 13808..14038, 13808..14137, 13884..14138, 14105..14260, 14149..14259		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o4.tm	Method	TBLASTX:Maize
Start	13637	End	14041
GI	none	Score	104
Exons	13637..13702, 13718..14041, 13896..14039		

Seq. No.	38178	Seq. ID	OJ991109_08.0223.C16
Gene No.	78516	Strand	-
Start	11674	End	16750
Name	OJ991109_08.0223.C16.o5.tw	Method	TBLASTX:Wheat
Start	15046	End	15349
GI	none	Score	37
Exons	15046..15117, 15106..15207, 15117..15173, 15202..15348, 15203..15349		

Seq. No.	38179	Seq. ID	OJ991109_08.0223.C18
Gene No.	78517	Strand	-
Start	459	End	729
Name	OJ991109_08.0223.C18.o1.np	Method	AAT/NAP
Start	459	End	729
GI	6742729	Score	310
Exons	459..729		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	38179	Seq. ID	OJ991109_08.0223.C18
Gene No.	78518	Strand	-
Start	634	End	721
Name	OJ991109_08.0223.C18.o1.tw	Method	TBLASTX:Wheat
Start	461	End	721
GI	none	Score	103
Exons	461..721, 470..721		

Seq. No.	38179	Seq. ID	OJ991109_08.0223.C18
Gene No.	78518	Strand	-
Start	634	End	721
Name	OJ991109_08.0223.C18.o1.gs	Method	GENSCAN

Start 634  
GI none  
Exons 634..661

End 661  
Score .94

Seq. No. 38180  
Gene No. 78519  
Start 94  
Name OJ991209\_08.0222.C2.o1.gs  
Start 94  
GI none  
Exons 94..129, 226..365

Seq. ID OJ991209\_08.0222.C2  
Strand -  
End 365  
Method GENSCAN  
End 365  
Score .78

Seq. No. 38181  
Gene No. 78520  
Start 875  
Name OJ991209\_08.0222.C3.o1.gp  
Start 875  
GI 9263\_1.R1084  
Exons 875..943, 1390..1527, 1629..1668

Seq. ID OJ991209\_08.0222.C3  
Strand +  
End 2865  
Method AAT/GAP  
End 1668  
Score 383

GI Descrip. '5817065/emb|CAB53665.1| 6.0e-11 (AL110160) hypothetical protein [Homo sapiens]'

Seq. No. 38181  
Gene No. 78520  
Start 875  
Name OJ991209\_08.0222.C3.o1.gs  
Start 910  
GI none  
Exons 910..943, 1390..1527, 1629..1716, 2779..2865

Seq. ID OJ991209\_08.0222.C3  
Strand +  
End 2865  
Method GENSCAN  
End 2865  
Score .59

Seq. No. 38181  
Gene No. 78520  
Start 875  
Name OJ991209\_08.0222.C3.o2.gp  
Start 1345  
GI 9263\_1.R1084  
Exons 1345..1527, 1629..1717

Seq. ID OJ991209\_08.0222.C3  
Strand +  
End 2865  
Method AAT/GAP  
End 1717  
Score 381

GI Descrip. '5817065/emb|CAB53665.1| 6.0e-11 (AL110160) hypothetical protein [Homo sapiens]'

Seq. No. 38181  
Gene No. 78521  
Start 9743  
Name OJ991209\_08.0222.C3.o3.gs  
Start 9743  
GI none  
Exons 9743..9919, 10008..10088

Seq. ID OJ991209\_08.0222.C3  
Strand +  
End 10088  
Method GENSCAN  
End 10088  
Score .7

Seq. No. 38181  
Gene No. 78522  
Start 10766  
Name OJ991209\_08.0222.C3.o4.gs  
Start 10766  
GI none  
Exons 10766..10829, 10917..11029, 11205..11405, 11738..12031

Seq. ID OJ991209\_08.0222.C3  
Strand +  
End 12031  
Method GENSCAN  
End 12031  
Score .52

Seq. No. 38181

Seq. ID OJ991209\_08.0222.C3

Gene No.	78522	Strand	+
Start	10766	End	12031
Name	OJ991209_08.0222.C3.o3.np	Method	AAT/NAP
Start	11038	End	12031
GI	6069646	Score	427
Exons	11038..12031		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78523	Strand	+
Start	12494	End	14280
Name	OJ991209_08.0222.C3.o5.gs	Method	GENSCAN
Start	12494	End	14280
GI	none	Score	.87
Exons	12494..12758, 13628..14280		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78524	Strand	+
Start	16134	End	20062
Name	OJ991209_08.0222.C3.o4.gp	Method	AAT/GAP
Start	16134	End	18807
GI	none	Score	913
Exons	16134..16362, 18542..18807		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78524	Strand	+
Start	16134	End	20062
Name	OJ991209_08.0222.C3.o7.gs	Method	GENSCAN
Start	18552	End	20062
GI	none	Score	.67
Exons	18552..18825, 19896..20062		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78525	Strand	+
Start	21647	End	25755
Name	OJ991209_08.0222.C3.o4.np	Method	AAT/NAP
Start	21647	End	25752
GI	6815053	Score	.765
Exons	21647..21793, 25290..25465, 25515..25752		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78525	Strand	+
Start	21647	End	25755
Name	OJ991209_08.0222.C3.o9.gs	Method	GENSCAN
Start	24041	End	25755
GI	none	Score	.84
Exons	24041..24259, 24268..24451, 24482..24624, 25290..25399, 25416..25755		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78526	Strand	-
Start	2653	End	9308

Name	OJ991209_08.0222.C3.o1.np	Method	AAT/NAP
Start	2653	End	9308
GI	6630556	Score	1610
Exons	2653..2809, 3255..3398, 3580..3772, 3864..3920, 4226..4332, 4758..4829, 4931..5049, 5535..5679, 5840..5892, 5992..6037, 6130..6276, 6693..6761, 7068..7221, 7305..7426, 7811..8007, 8590..8644, 9116..9308		
GI Descrip.	(AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis thaliana]		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78526	Strand	-
Start	2653	End	9308
Name	OJ991209_08.0222.C3.o2.gs	Method	GENSCAN
Start	3201	End	6757
GI	none	Score	.67
Exons	3201..3398, 3580..3772, 3810..3920, 4226..4387, 4944..5049, 5535..5679, 6749..6757		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78527	Strand	-
Start	14452	End	14719
Name	OJ991209_08.0222.C3.o3.gp	Method	AAT/GAP
Start	14452	End	14719
GI	LIB3434-035-P1-K1-A7	Score	460
Exons	14452..14719		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78528	Strand	-
Start	15503	End	17016
Name	OJ991209_08.0222.C3.o6.gs	Method	GENSCAN
Start	15503	End	17016
GI	none	Score	.79
Exons	15503..15655, 16152..16349, 16930..17016		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78529	Strand	-
Start	19299	End	19706
Name	OJ991209_08.0222.C3.o5.gp	Method	AAT/GAP
Start	19299	End	19706
GI	none	Score	751
Exons	19299..19706		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o3.tc	Method	TBLASTX:Cress
Start	1623	End	1858
GI	none	Score	80
Exons	1623..1718, 1624..1719, 1626..1718, 1793..1858, 1795..1842		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o5.tm	Method	TBLASTX:Maize

Start	1639	End	1857
GI	none	Score	134
Exons	1639..1716, 1641..1715, 1642..1716, 1787..1855, 1798..1857, 1798..1851		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o1.tm	Method	TBLASTX:Maize
Start	2717	End	9263
GI	none	Score	128
Exons	2717..2812, 3255..3404, 3256..3396, 3577..3774, 3578..3775, 3839..3922, 3842..3922, 3871..3924, 4226..4300, 4229..4288, 4233..4301, 4309..4335, 4746..4835, 4747..4839, 4904..5065, 4929..5051, 5524..5661, 5531..5683, 5532..5723, 5532..5681, 5838..5912, 5840..5899, 5990..6040, 6006..6038, 6118..6276, 6134..6277, 6678..6764, 6691..6762, 7051..7164, 7062..7142, 7062..7202, 7067..7210, 7069..7203, 7307..7426, 7308..7427, 7811..8008, 7812..8009, 8564..8644, 8584..8646, 8588..8647, 9111..9263, 9116..9196		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o1.ts	Method	TBLASTX:Soybean
Start	2723	End	8008
GI	none	Score	107
Exons	2723..2812, 3255..3320, 3342..3404, 3598..3771, 3683..3778, 3683..3775, 3842..3922, 3849..3923, 4226..4297, 4746..4835, 4747..4833, 4928..5050, 4929..5051, 4929..5051, 4931..5074, 5524..5661, 5534..5680, 5840..5899, 5990..6040, 6009..6041, 6118..6276, 6119..6277, 6131..6283, 6132..6284, 6678..6764, 7030..7209, 7062..7211, 7316..7426, 7811..7858, 7812..7859, 7859..8008, 7863..8006		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o1.tw	Method	TBLASTX:Wheat
Start	3573	End	3934
GI	none	Score	89
Exons	3573..3749, 3577..3774, 3581..3775, 3842..3934, 3863..3928		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o1.tc	Method	TBLASTX:Cress
Start	4746	End	5687
GI	none	Score	111
Exons	4746..4835, 4904..5065, 4947..5054, 5521..5661, 5535..5687, 5549..5680		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o3.tw	Method	TBLASTX:Wheat
Start	4928	End	5810



GI	none	Score	144
Exons	4928..5065, 4929..5051, 4931..5074, 5524..5661, 5531..5683, 5532..5681, 5790..5810		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o2.tc	Method	TBLASTX:Cress
Start	7862	End	9184
GI	none	Score	141
Exons	7862..8008, 7863..8009, 8591..8644, 9116..9184		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o4.tw	Method	TBLASTX:Wheat
Start	10744	End	11065
GI	none	Score	140
Exons	10744..10920, 10754..10921, 10910..11065, 10972..11061		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o3.tm	Method	TBLASTX:Maize
Start	10754	End	11140
GI	none	Score	287
Exons	10754..11140, 10756..11115		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o2.tw	Method	TBLASTX:Wheat
Start	11229	End	11605
GI	none	Score	105
Exons	11229..11366, 11444..11605		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o2.tm	Method	TBLASTX:Maize
Start	11450	End	12013
GI	none	Score	266
Exons	11450..11758, 11500..11658, 11786..12013		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o5.tw	Method	TBLASTX:Wheat
Start	11612	End	12016
GI	none	Score	104
Exons	11612..11758, 11765..12016		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o4.tm	Method	TBLASTX:Maize
Start	18531	End	18832

GI	none	Score	255
Exons	18531..18830, 18531..18575, 18576..18623, 18627..18830, 18629..18832, 18656..18832		
Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o2.ts	Method	TBLASTX:Soybean
Start	18549	End	19310
GI	none	Score	190
Exons	18549..18827, 18656..18826, 19200..19310, 19219..19299		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o8.gs	Method	GENSCAN
Start	21051	End	23001
GI	none	Score	.69
Exons	21051..21141, 21202..21276, 21888..21940, 22933..23001		

Seq. No.	38181	Seq. ID	OJ991209_08.0222.C3
Gene No.	78530	Strand	-
Start	21051	End	23001
Name	OJ991209_08.0222.C3.o6.gp	Method	AAT/GAP
Start	22278	End	22450
GI	LIB3433-026-P1-K1-C1	Score	254
Exons	22278..22450		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78531	Strand	+
Start	18821	End	24290
Name	OJ991209_08.0222.C4.o6.gp	Method	AAT/GAP
Start	18738	End	20531
GI	LIB3433-034-P1-K1-B9	Score	607
Exons	18738..18868, 20332..20531		
GI Descrip.	'5107157/gb AAD39991.1 AF150084_1 2.0e-20 (AF150084) small zinc finger-like protein [Malus domestica]'		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78531	Strand	+
Start	18821	End	24290
Name	OJ991209_08.0222.C4.o2.gs	Method	GENSCAN
Start	18821	End	24290
GI	none	Score	.72
Exons	18821..18868, 20332..20502, 21112..21178, 21884..22104, 22106..23873, 24283..24290		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78531	Strand	+
Start	18821	End	24290
Name	OJ991209_08.0222.C4.o8.np	Method	AAT/NAP
Start	20276	End	20496
GI	5107157	Score	189
Exons	20276..20496		
GI Descrip.	(AF150084) small zinc finger-like protein [Malus domestica]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78531	Strand	+
Start	18821	End	24290
Name	OJ991209_08.0222.C4.o9.np	Method	AAT/NAP
Start	20886	End	23884
GI	5903099	Score	1215
Exons	20886..20944, 21942..23884		
GI Descrip.	(AC008017) Unknown protein [Arabidopsis thaliana]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o1.np	Method	AAT/NAP
Start	649	End	4211
GI	6630556	Score	702
Exons	649..793, 1116..1259, 1475..1667, 1760..1816, 2111..2214, 3207..3278, 3414..3518, 3984..4211		
GI Descrip.	(AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis thaliana]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o1.gs	Method	GENSCAN
Start	695	End	17230
GI	none	Score	.79
Exons	695..793, 1116..1259, 1475..1667, 1760..1816, 2111..2214, 3207..3278, 3414..3532, 3998..4148, 4588..4733, 4809..4878, 5255..5425, 6007..6197, 6454..6606, 7878..8121, 8221..8412, 8920..8949, 9532..9651, 9781..9924, 10014..10200, 10287..10343, 10483..10586, 10941..11012, 11056..11237, 11941..12085, 12647..12739, 12940..13326, 13408..13555, 13641..13762, 14012..14208, 14986..15040, 15196..15419, 15832..15949, 16010..16114, 17225..17230		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o2.np	Method	AAT/NAP
Start	2499	End	6535
GI	6630556	Score	990
Exons	2499..2542, 3207..3278, 3414..3518, 3984..4148, 4314..4366, 4457..4502, 4588..4733, 4809..4878, 5255..5408, 5502..5623, 6007..6197, 6433..6535		
GI Descrip.	(AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis thaliana]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o3.np	Method	AAT/NAP
Start	2667	End	6075
GI	5107819	Score	847
Exons	2667..2706, 3190..3293, 3414..3532, 3998..4148, 4588..4733, 4809..4878, 5255..5402, 5496..5623, 6007..6075		
GI Descrip.	(AF149413) contains similarity to arabinosidase [Arabidopsis		

thaliana]

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o4.np	Method	AAT/NAP
Start	3043	End	6075
GI	5107819	Score	844
Exons	3043..3293, 3414..3532, 3998..4148, 4588..4733, 4809..4878, 5255..5402, 5496..5623, 6007..6075		
GI Descrip.	(AF149413) contains similarity to arabinosidase [Arabidopsis thaliana]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o5.np	Method	AAT/NAP
Start	3043	End	7079
GI	6630556	Score	979
Exons	3043..3278, 3414..3518, 3984..4148, 4314..4366, 4457..4502, 4588..4733, 4809..4878, 5255..5408, 5502..5623, 6007..6197, 7046..7079		

GI Descrip. (AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis thaliana]

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o6.np	Method	AAT/NAP
Start	3420	End	6188
GI	6630556	Score	947
Exons	3420..3518, 3984..4148, 4314..4366, 4457..4502, 4588..4733, 4809..4878, 5255..5408, 5502..5623, 6007..6188		
GI Descrip.	(AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis thaliana]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o1.gp	Method	AAT/GAP
Start	9126	End	13009
GI	14187 1.R1084	Score	2693
Exons	9126..9668, 9781..9924, 10008..10200, 10287..10343, 10483..10586, 10941..11012, 11119..11237, 11941..12085, 12647..12699, 12779..12824, 12940..13009		
GI Descrip.	'5107819/gp AAD40132.1 AF149413_13 1.0e-107 (AF149413) contains similarity to arabinosidase [Arabidopsis thaliana]		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o7.np	Method	AAT/NAP
Start	9513	End	15398
GI	6630556	Score	1745
Exons	9513..9668, 9781..9921, 10005..10200, 10287..10343, 10483..10586, 10941..11012, 11119..11237, 11941..12085, 12647..12699, 12779..12824, 12940..13085, 13190..13259,		

13408..13571, 13651..13762, 14012..14208, 14986..15040,  
15196..15398  
GI Descrip. (AC011708) putative alpha-L-arabinofuranosidase [Arabidopsis  
thaliana]

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o2.gp	Method	AAT/GAP
Start	13163	End	14121
GI	31091_1.R1084	Score	771
Exons	13163..13259, 13408..13555, 13641..13762, 14012..14121		
GI Descrip.	'5107819/gb AAD40132.1 AF149413_13 3.0e-50 (AF149413) contains similarity to arabinosidase [Arabidopsis thaliana]'		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o3.gp	Method	AAT/GAP
Start	13349	End	14213
GI	31091_1.R1084	Score	810
Exons	13349..13555, 13641..13762, 14012..14213		
GI Descrip.	'5107819/gb AAD40132.1 AF149413_13 3.0e-50 (AF149413) contains similarity to arabinosidase [Arabidopsis thaliana]'		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78532	Strand	-
Start	695	End	17230
Name	OJ991209_08.0222.C4.o4.gp	Method	AAT/GAP
Start	14094	End	15919
GI	uC-osflm202106f09b1	Score	896
Exons	14094..14208, 14986..15040, 15196..15419, 15832..15919		
GI Descrip.	'4809270/gb AF149413.1 T1N24 2.0e-09 Arabidopsis thaliana BAC T1N24'		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o2.tm	Method	TBLASTX:Maize
Start	692	End	15309
GI	none	Score	67
Exons	692..796, 693..794, 1104..1262, 1108..1257, 1470..1667, 1472..1669, 1473..1670, 1474..1671, 1762..1818, 1765..1818, 1769..1819, 2111..2209, 2113..2217, 3207..3278, 3369..3530, 3397..3522, 3413..3532, 4010..4150, 4023..4169, 4024..4158, 4025..4159, 4314..4364, 4314..4367, 4453..4503, 4455..4505, 4569..4730, 4576..4746, 4588..4731, 4604..4735, 4778..4903, 4796..4879, 4807..4881, 5241..5390, 5249..5389, 5254..5415, 5504..5623, 5514..5624, 6007..6174, 6008..6175, 6008..6202, 7719..7778, 7720..7797, 7878..7976, 9546..9671, 9546..9677, 9547..9726, 9775..9930, 9779..9931, 9780..9974, 9975..10199, 9996..10199, 9997..10203, 10286..10345, 10286..10345, 10480..10587, 10486..10587, 10487..10588, 10487..10606, 10940..11011, 10941..11012, 10942..11013, 10953..11054, 11116..11259, 11117..11239, 11119..11244, 11923..12087, 11928..12086, 11930..12088, 11930..12091, 12636..12701, 12647..12703, 12772..12825, 12777..12827, 12777..12827,		

12901..13086, 12944..13087, 12948..13094, 13176..13262,  
 13189..13260, 13397..13552, 13401..13553, 13402..13554,  
 13403..13558, 13643..13762, 13644..13763, 13651..13764,  
 14012..14209, 14013..14213, 14014..14211, 14984..15076,  
 14984..15040, 15194..15280, 15194..15277, 15196..15309

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o2.ts	Method	TBLASTX:Soybean
Start	1104	End	14209
GI	none	Score	98
Exons	1104..1181, 1203..1262, 1499..1666, 1503..1670, 1575..1673, 1762..1818, 1766..1819, 1784..1819, 2111..2209, 2113..2217, 2125..2217, 2126..2224, 3207..3278, 3408..3530, 3411..3530, 3412..3540, 3430..3531, 4017..4151, 4023..4169, 4024..4158, 4124..4222, 4455..4505, 4456..4506, 4576..4746, 4588..4731, 4607..4735, 4796..4879, 4807..4881, 5241..5309, 5249..5395, 5504..5623, 5514..5624, 6007..6054, 6008..6055, 6058..6174, 6058..6174, 9561..9677, 9778..9849, 9779..9850, 10026..10058, 10032..10202, 10101..10202, 10102..10206, 10126..10203, 10289..10345, 10292..10345, 10311..10355, 10471..10587, 10480..10587, 10485..10589, 10487..10588, 10941..11012, 10945..11016, 11116..11259, 11126..11239, 11870..11914, 11930..12091, 11931..12089, 12636..12701, 12647..12703, 12772..12828, 12777..12827, 12883..13086, 12932..13087, 13176..13262, 13189..13260, 13402..13542, 13403..13543, 13643..13762, 13653..13763, 14012..14059, 14013..14063, 14014..14064, 14060..14209, 14061..14204, 14063..14209		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o1.tc	Method	TBLASTX:Cress
Start	1116	End	10560
GI	none	Score	91
Exons	1116..1181, 1568..1666, 1575..1664, 1762..1818, 1762..1818, 2111..2185, 2126..2179, 9564..9677, 9583..9696, 9781..9849, 9788..9859, 9820..9930, 9987..10073, 10053..10202, 10105..10200, 10289..10345, 10292..10345, 10480..10560		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o1.tw	Method	TBLASTX:wheat
Start	1472	End	10348
GI	none	Score	221
Exons	1472..1669, 1476..1670, 1476..1673, 1480..1671, 1758..1820, 1762..1818, 1764..1820, 1765..1821, 9996..10199, 9997..10203, 10039..10215, 10285..10347, 10286..10348, 10286..10345		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o2.tc	Method	TBLASTX:Cress
Start	3207	End	12691
GI	none	Score	79

Exons 3207..3278, 3397..3531, 3402..3530, 4011..4151, 4023..4154,  
4024..4158, 10941..11012, 11095..11259, 11135..11245,  
11927..12130, 11940..12086, 12647..12691

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o2.tw	Method	TBLASTX:Wheat
Start	3397	End	12794
GI	none	Score	113
Exons	3397..3522, 3407..3532, 3411..3530, 4023..4169, 4024..4173, 10992..11012, 11112..11237, 11116..11259, 11117..11239, 11913..12086, 11923..12087, 11928..12086, 11930..12088, 11930..12091, 12636..12701, 12647..12703, 12777..12794		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o3.tc	Method	TBLASTX:Cress
Start	6058	End	15264
GI	none	Score	94
Exons	6058..6174, 6059..6175, 7719..7778, 7720..7776, 7873..7917, 7878..7916, 14063..14209, 14064..14213, 14984..15040, 14985..15041, 15196..15264		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o3.tw	Method	TBLASTX:Wheat
Start	20326	End	20502
GI	none	Score	179
Exons	20326..20502		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o4.tc	Method	TBLASTX:Cress
Start	20326	End	20511
GI	none	Score	204
Exons	20326..20511, 20368..20502		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o5.tm	Method	TBLASTX:Maize
Start	20326	End	20502
GI	none	Score	194
Exons	20326..20502, 20386..20490		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o4.ts	Method	TBLASTX:Soybean
Start	20332	End	20523
GI	none	Score	214
Exons	20332..20523		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o4.tm	Method	TBLASTX:Maize
Start	21946	End	22552
GI	none	Score	79
Exons	21946..22035, 22328..22552, 22352..22549		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o3.ts	Method	TBLASTX:Soybean
Start	22493	End	22882
GI	none	Score	175
Exons	22493..22684, 22501..22596, 22598..22714, 22618..22653, 22715..22882		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o3.tm	Method	TBLASTX:Maize
Start	22553	End	22980
GI	none	Score	73
Exons	22553..22642, 22613..22732, 22730..22978, 22790..22978, 22897..22980		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o1.ts	Method	TBLASTX:Soybean
Start	22936	End	23404
GI	none	Score	420
Exons	22936..23136, 22940..23404, 23221..23400, 23276..23404		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o1.tm	Method	TBLASTX:Maize
Start	22981	End	23881
GI	none	Score	607
Exons	22981..23445, 22982..23473, 23306..23473, 23515..23760, 23516..23785, 23612..23782, 23834..23881		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o5.ts	Method	TBLASTX:Soybean
Start	23615	End	23875
GI	none	Score	196
Exons	23615..23782, 23636..23782, 23834..23875		

Seq. No.	38182	Seq. ID	OJ991209_08.0222.C4
Gene No.	78533	Strand	-
Start	25669	End	26025
Name	OJ991209_08.0222.C4.o3.gs	Method	GENSCAN
Start	25669	End	26025
GI	none	Score	.84



Exons 25669..25776, 25829..26025

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o2.np	Method	AAT/NAP
Start	317	End	7038
GI	119714	Score	202
Exons	317..434, 2120..2732, 5973..6093, 6906..7038		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir  S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090  (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o1.tc	Method	TBLASTX:Cress
Start	951	End	1508
GI	none	Score	153
Exons	951..1508, 952..1416		

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o2.tm	Method	TBLASTX:Maize
Start	951	End	1238
GI	none	Score	95
Exons	951..1238, 952..1113		

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o2.ts	Method	TBLASTX:Soybean
Start	951	End	1238
GI	none	Score	118
Exons	951..1238, 952..1146		

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o1.np	Method	AAT/NAP
Start	954	End	2245
GI	3582328	Score	881
Exons	954..2245		
GI Descrip.	(AC005496)- hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o1.tm	Method	TBLASTX:Maize
Start	1242	End	2281
GI	none	Score	64
Exons	1242..1931, 1276..1470, 1504..1926, 1725..1919, 1922..2083, 1931..2086, 2189..2281, 2189..2281		

Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
----------	-------	---------	---------------------

Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o1.ts	Method	TBLASTX:Soybean
Start	1254	End	1787
GI	none	Score	95
Exons	1254..1787, 1276..1434, 1468..1785		
Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o2.tc	Method	TBLASTX:Cress
Start	1533	End	2116
GI	none	Score	147
Exons	1533..1916, 1570..1917, 2012..2116		
Seq. No.	38183	Seq. ID	OJ991209_08.0222.C5
Gene No.	78534	Strand	-
Start	317	End	7038
Name	OJ991209_08.0222.C5.o1.tw	Method	TBLASTX:Wheat
Start	1647	End	2293
GI	none	Score	68
Exons	1647..1904, 1647..1931, 1648..1929, 1922..2116, 2012..2116, 2222..2293		
Seq. No.	38184	Seq. ID	OJ991209_08.0222.C6
Gene No.	78535	Strand	+
Start	1663	End	3724
Name	OJ991209_08.0222.C6.o1.gs	Method	GENSCAN
Start	1663	End	3724
GI	none	Score	.53
Exons	1663..1952, 2083..2170, 2840..2934, 3030..3102, 3228..3320, 3644..3724		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78536	Strand	+
Start	2978	End	7112
Name	OJ991209_08.0222.C7.o1.gs	Method	GENSCAN
Start	2978	End	7112
GI	none	Score	.81
Exons	2978..3127, 3902..4033, 4399..4456, 4710..4829, 5496..5545, 7044..7112		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78537	Strand	+
Start	7780	End	17530
Name	OJ991209_08.0222.C7.o2.gs	Method	GENSCAN
Start	7780	End	15276
GI	none	Score	.55
Exons	7780..8048, 8106..8228, 8315..8480, 9245..9283, 9954..9972, 10172..11740, 11765..11823, 11859..12272, 14452..15276		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78537	Strand	+
Start	7780	End	17530
Name	OJ991209_08.0222.C7.o2.np	Method	AAT/NAP
Start	13542	End	17530
GI	4226115	Score	71

Exons 13542..13650, 14752..15053, 17493..17530  
GI Descrip. (AF125455) No definition line found [Caenorhabditis elegans]

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78538	Strand	+
Start	19387	End	20277
Name	OJ991209_08.0222.C7.o4.gs	Method	GENSCAN
Start	19387	End	20277
GI	none	Score	.56
Exons	19387..20277		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78539	Strand	+
Start	25227	End	26281
Name	OJ991209_08.0222.C7.o6.gs	Method	GENSCAN
Start	25227	End	26281
GI	none	Score	.84
Exons	25227..26072, 26078..26281		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78539	Strand	+
Start	25227	End	26281
Name	OJ991209_08.0222.C7.o5.np	Method	AAT/NAP
Start	25411	End	26204
GI	3885338	Score	380
Exons	25411..26204		
GI Descrip.	(AC005623) unknown protein [Arabidopsis thaliana]		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78540	Strand	+
Start	32742	End	39436
Name	OJ991209_08.0222.C7.o8.gs	Method	GENSCAN
Start	32742	End	39436
GI	none	Score	.56
Exons	32742..33145, 33264..33618, 35391..35568, 38635..38882, 38993..39166, 39280..39436		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78540	Strand	+
Start	32742	End	39436
Name	OJ991209_08.0222.C7.o6.np	Method	AAT/NAP
Start	32793	End	33684
GI	3402705	Score	475
Exons	32793..33179, 33286..33684		
GI Descrip.	(AC004261) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78540	Strand	+
Start	32742	End	39436
Name	OJ991209_08.0222.C7.o5.gp	Method	AAT/GAP
Start	35134	End	38740
GI	none	Score	852
Exons	35134..35245, 35327..35568, 38635..38740		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78541	Strand	-
Start	2750	End	3185

Name	OJ991209_08.0222.C7.o1.gp	Method	AAT/GAP
Start	2750	End	3185
GI	5039025	Score	669
Exons	2750..3185		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78542	Strand	-
Start	16439	End	18621
Name	OJ991209_08.0222.C7.o3.np	Method	AAT/NAP
Start	16439	End	18621
GI	5257262	Score	353
Exons	16439..16525, 16721..17250, 18082..18286, 18527..18621		
GI Descrip.	(AP000364) hypothetical protein [Oryza sativa]		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78542	Strand	-
Start	16439	End	18621
Name	OJ991209_08.0222.C7.o2.gp	Method	AAT/GAP
Start	18044	End	18411
GI	4879704	Score	572
Exons	18044..18411		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78543	Strand	-
Start	20940	End	22574
Name	OJ991209_08.0222.C7.o5.gs	Method	GENSCAN
Start	20940	End	22574
GI	none	Score	.55
Exons	20940..21549, 22486..22574		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78543	Strand	-
Start	20940	End	22574
Name	OJ991209_08.0222.C7.o3.gp	Method	AAT/GAP
Start	21216	End	21773
GI	none	Score	679
Exons	21216..21773		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78544	Strand	-
Start	29151	End	32331
Name	OJ991209_08.0222.C7.o6.tm	Method	TBLASTX:Maize
Start	11032	End	11265
GI	none	Score	192
Exons	11032..11265, 11047..11178, 11066..11182, 11070..11198		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78544	Strand	-
Start	29151	End	32331
Name	OJ991209_08.0222.C7.o3.ts	Method	TBLASTX:Soybean
Start	25482	End	26159
GI	none	Score	108
Exons	25482..25580, 25839..26096, 25913..25984, 26097..26159		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78544	Strand	-
Start	29151	End	32331

Name	OJ991209_08.0222.C7.o5.tm	Method	TBLASTX:Maize
Start	25782	End	25958
GI	none	Score	230
Exons	25782..25958, 25799..25852, 25907..25957		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78544	Strand	-
Start	29151	End	32331
Name	OJ991209_08.0222.C7.o7.gs	Method	GENSCAN
Start	29151	End	32331
GI	none	Score	.56
Exons	29151..29453, 29526..29603, 29716..29949, 30076..30156, 30236..30432, 30774..30940, 31684..31831, 31909..31981, 32062..32331		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78544	Strand	-
Start	29151	End	32331
Name	OJ991209_08.0222.C7.o2.tm	Method	TBLASTX:Maize
Start	29731	End	30433
GI	none	Score	129
Exons	29731..29937, 29731..29955, 29732..29953, 30052..30156, 30074..30157, 30233..30274, 30236..30274, 30275..30406, 30279..30419, 30410..30433		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78545	Strand	-
Start	32958	End	33348
Name	OJ991209_08.0222.C7.o4.tm	Method	TBLASTX:Maize
Start	32958	End	33348
GI	none	Score	250
Exons	32958..33074, 33020..33178, 33021..33179, 33123..33185, 33283..33348, 33285..33305		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78546	Strand	-
Start	33298	End	33690
Name	OJ991209_08.0222.C7.o2.ts	Method	TBLASTX:Soybean
Start	33298	End	33669
GI	none	Score	50
Exons	33298..33327, 33298..33318, 33364..33543, 33387..33539, 33615..33662, 33616..33669		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78546	Strand	-
Start	33298	End	33690
Name	OJ991209_08.0222.C7.o3.tm	Method	TBLASTX:Maize
Start	33372	End	33690
GI	none	Score	255
Exons	33372..33536, 33373..33543, 33391..33543, 33597..33680, 33598..33675, 33619..33690		

Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78547	Strand	-
Start	38637	End	39438
Name	OJ991209_08.0222.C7.o1.tm	Method	TBLASTX:Maize
Start	38637	End	39438

GI	none	Score	318
Exons	38637..38888, 38639..38818, 38646..38852, 38988..39125, 38993..39160, 39003..39161, 39262..39438, 39278..39427, 39280..39438		
Seq. No.	38185	Seq. ID	OJ991209_08.0222.C7
Gene No.	78547	Strand	
Start	38637	End	39438
Name	OJ991209_08.0222.C7.o1.ts	Method	TBLASTX:Soybean
Start	38724	End	39061
GI	none	Score	196
Exons	38724..38885, 38729..38818, 38993..39061		
Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78548	Strand	+
Start	992	End	1864
Name	OJ991209_08.0222.C8.o1.gs	Method	GENSCAN
Start	992	End	1864
GI	none	Score	.94
Exons	992..1864		
Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78549	Strand	+
Start	9180	End	12698
Name	OJ991209_08.0222.C8.o5.gs	Method	GENSCAN
Start	9180	End	12698
GI	none	Score	.52
Exons	9180..9428, 9807..10154, 10954..11001, 12675..12698		
Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78549	Strand	+
Start	9180	End	12698
Name	OJ991209_08.0222.C8.o2.gp	Method	AAT/GAP
Start	9370	End	10044
GI	2799515	Score	445
Exons	9370..9428, 9807..10044		
Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78550	Strand	-
Start	1859	End	2136
Name	OJ991209_08.0222.C8.o1.gp	Method	AAT/GAP
Start	1859	End	2136
GI	none	Score	363
Exons	1859..2136		
Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78551	Strand	-
Start	3119	End	3445
Name	OJ991209_08.0222.C8.o2.gs	Method	GENSCAN
Start	3119	End	3445
GI	none	Score	.74
Exons	3119..3445		
Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78552	Strand	-
Start	4124	End	6331
Name	OJ991209_08.0222.C8.o3.gs	Method	GENSCAN

Start	4124	End	6331
GI	none	Score	.41
Exons	4124..4182, 4696..4966, 5867..5949, 6190..6331		

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78553	Strand	-
Start	6856	End	8425
Name	OJ991209_08.0222.C8.o4.gs	Method	GENSCAN
Start	6856	End	8425
GI	none	Score	.48
Exons	6856..6882, 6993..7029, 8382..8425		

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78554	Strand	-
Start	12853	End	13730
Name	OJ991209_08.0222.C8.o6.gs	Method	GENSCAN
Start	12853	End	13730
GI	none	Score	.76
Exons	12853..13162, 13195..13381, 13523..13730		

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78555	Strand	-
Start	14435	End	14998
Name	OJ991209_08.0222.C8.o1.tm	Method	TBLASTX:Maize
Start	989	End	1274
GI	none	Score	220
Exons	989..1270, 1090..1272, 1095..1274, 1098..1271		

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78555	Strand	-
Start	14435	End	14998
Name	OJ991209_08.0222.C8.o7.gs	Method	GENSCAN
Start	14435	End	14992
GI	none	Score	.83
Exons	14435..14992		

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78555	Strand	-
Start	14435	End	14998
Name	OJ991209_08.0222.C8.o1.np	Method	AAT/NAP
Start	14438	End	14998
GI	6630696	Score	924
Exons	14438..14998		

GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa].

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78555	Strand	-
Start	14435	End	14998
Name	OJ991209_08.0222.C8.o1.tw	Method	TBLASTX:Wheat
Start	14574	End	14960
GI	none	Score	410
Exons	14574..14960, 14576..14959		

Seq. No.	38186	Seq. ID	OJ991209_08.0222.C8
Gene No.	78555	Strand	-

Start	14435	End	14998
Name	OJ991209_08.0222.C8.o1.ts	Method	TBLASTX:Soybean
Start	14702	End	14992
GI	none	Score	96
Exons	14702..14911, 14781..14906, 14930..14992		

Seq. No.	38187	Seq. ID	OJ990619_50.0211.C2
Gene No.	78556	Strand	-
Start	1	End	2644
Name	OJ990619_50.0211.C2.o1.np	Method	AAT/NAP
Start	1	End	2644
GI	122772	Score	319
Exons	1..24, 172..443, 852..982, 1341..1470, 2585..2644		
GI Descrip.	TRANSCRIPTION FACTOR HBP-1B gi 100809 pir  S15347 transcription factor HBP-1b - wheat gi 21635 emb CAA40102  (X56782) HBP-1b [Triticum aestivum]		

Seq. No.	38187	Seq. ID	OJ990619_50.0211.C2
Gene No.	78556	Strand	-
Start	1	End	2644
Name	OJ990619_50.0211.C2.o1.tc	Method	TBLASTX:Cress
Start	169	End	1409
GI	none	Score	125
Exons	169..441, 170..442, 905..985, 1341..1409		

Seq. No.	38187	Seq. ID	OJ990619_50.0211.C2
Gene No.	78556	Strand	-
Start	1	End	2644
Name	OJ990619_50.0211.C2.o1.tm	Method	TBLASTX:Maize
Start	169	End	448
GI	none	Score	202
Exons	169..447, 173..448		

Seq. No.	38187	Seq. ID	OJ990619_50.0211.C2
Gene No.	78556	Strand	-
Start	1	End	2644
Name	OJ990619_50.0211.C2.o1.gs	Method	GENSCAN
Start	172	End	1941
GI	none	Score	.66
Exons	172..443, 631..664, 1341..1484, 1811..1941		

Seq. No.	38187	Seq. ID	OJ990619_50.0211.C2
Gene No.	78556	Strand	-
Start	1	End	2644
Name	OJ990619_50.0211.C2.o1.ts	Method	TBLASTX:Soybean
Start	176	End	985
GI	none	Score	152
Exons	176..445, 178..447, 905..985		

Seq. No.	38187	Seq. ID	OJ990619_50.0211.C2
Gene No.	78556	Strand	-
Start	1	End	2644
Name	OJ990619_50.0211.C2.o1.tw	Method	TBLASTX:Wheat
Start	193	End	1388
GI	none	Score	58
Exons	193..441, 194..247, 305..433, 905..982, 1344..1388		



Seq. No.	38188	Seq. ID	OJ990619_50.0211.C5
Gene No.	78557	Strand	+
Start	351	End	1206
Name	OJ990619_50.0211.C5.o1.np	Method	AAT/NAP
Start	288	End	1206
GI	5881940	Score	226
Exons	288..392, 568..870, 994..1206		
GI Descrip.	(AL117387) putative secreted protein [Streptomyces coelicolor A3(2)]		

Seq. No.	38188	Seq. ID	OJ990619_50.0211.C5
Gene No.	78557	Strand	+
Start	351	End	1206
Name	OJ990619_50.0211.C5.o1.gs	Method	GENSCAN
Start	351	End	1196
GI	none	Score	.95
Exons	351..870, 994..1196		

Seq. No.	38188	Seq. ID	OJ990619_50.0211.C5
Gene No.	78557	Strand	+
Start	351	End	1206
Name	OJ990619_50.0211.C5.o2.tm	Method	TBLASTX:Maize
Start	455	End	707
GI	none	Score	178
Exons	455..550, 459..569, 567..644, 567..608, 648..707		

Seq. No.	38188	Seq. ID	OJ990619_50.0211.C5
Gene No.	78557	Strand	+
Start	351	End	1206
Name	OJ990619_50.0211.C5.o1.tc	Method	TBLASTX:Cress
Start	714	End	1199
GI	none	Score	196
Exons	714..878, 987..1199, 992..1189		

Seq. No.	38188	Seq. ID	OJ990619_50.0211.C5
Gene No.	78557	Strand	+
Start	351	End	1206
Name	OJ990619_50.0211.C5.o1.tm	Method	TBLASTX:Maize
Start	993	End	1199
GI	none	Score	263
Exons	993..1199, 998..1195		

Seq. No.	38189	Seq. ID	OJ990619_50.0211.C6
Gene No.	78558	Strand	+
Start	130	End	1782
Name	OJ990619_50.0211.C6.o1.tc	Method	TBLASTX:Cress
Start	1	End	392
GI	none	Score	57
Exons	1..39, 124..198, 282..392		

Seq. No.	38189	Seq. ID	OJ990619_50.0211.C6
Gene No.	78558	Strand	+
Start	130	End	1782
Name	OJ990619_50.0211.C6.o2.tm	Method	TBLASTX:Maize
Start	1	End	400
GI	none	Score	65
Exons	1..39, 107..193, 113..193, 124..201, 135..194, 290..364,		

300..392, 302..400

Seq. No.	38189	Seq. ID	OJ990619_50.0211.C6
Gene No.	78558	Strand	+
Start	130	End	1782
Name	OJ990619_50.0211.C6.o1.gs	Method	GENSCAN
Start	130	End	1768
GI	none	Score	.51
Exons	130..201, 297..392, 1467..1588, 1683..1768		

Seq. No.	38189	Seq. ID	OJ990619_50.0211.C6
Gene No.	78558	Strand	+
Start	130	End	1782
Name	OJ990619_50.0211.C6.o1.ts	Method	TBLASTX:Soybean
Start	1341	End	1782
GI	none	Score	101
Exons	1341..1424, 1346..1423, 1515..1565, 1571..1594, 1657..1782, 1657..1782		

Seq. No.	38189	Seq. ID	OJ990619_50.0211.C6
Gene No.	78558	Strand	+
Start	130	End	1782
Name	OJ990619_50.0211.C6.o1.tm	Method	TBLASTX:Maize
Start	1347	End	1782
GI	none	Score	112
Exons	1347..1424, 1364..1423, 1365..1424, 1366..1434, 1393..1425, 1511..1588, 1512..1565, 1568..1594, 1610..1771, 1657..1782, 1662..1691, 1672..1782		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o1.gp	Method	AAT/GAP
Start	99	End	757
GI	none	Score	664
Exons	99..242, 326..412, 544..757		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o1.tw	Method	TBLASTX:Wheat
Start	131	End	623
GI	none	Score	146
Exons	131..247, 135..248, 136..252, 313..411, 324..410, 328..411, 541..600, 542..619, 543..623		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o1.gs	Method	GENSCAN
Start	137	End	2595
GI	none	Score	.9
Exons	137..242, 326..412, 544..1150, 1951..2019, 2502..2595		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534

Name	OJ990619_50.0211.C7.o2.tm	Method	TBLASTX:Maize
Start	322	End	1164
GI	none	Score	114
Exons	322..411, 324..410, 542..775, 543..668, 729..776, 800..916, 801..923, 942..1025, 954..1016, 1016..1096, 1017..1097, 1057..1098, 1075..1164		
Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o3.tc	Method	TBLASTX:Cress
Start	561	End	1365
GI	none	Score	68
Exons	561..665, 749..784, 833..886, 942..1004, 947..1003, 1029..1115, 1046..1114, 1213..1365, 1225..1353		
Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o2.ts	Method	TBLASTX:Soybean
Start	828	End	1355
GI	none	Score	51
Exons	828..890, 948..1001, 1023..1115, 1213..1353, 1263..1355		
Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o1.np	Method	AAT/NAP
Start	910	End	5353
GI	5881940	Score	274
Exons	910..1171, 3585..3726, 4825..5027, 5156..5353		
GI Descrip.	(AL117387) putative secreted protein [Streptomyces coelicolor A3(2)]		
Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o3.tm	Method	TBLASTX:Maize
Start	1209	End	1365
GI	none	Score	69
Exons	1209..1322, 1213..1365, 1227..1355		
Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o2.gs	Method	GENSCAN
Start	3174	End	5386
GI	none	Score	.72
Exons	3174..3726, 4825..5147, 5156..5386		
Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.o2.tc	Method	TBLASTX:Cress
Start	3576	End	5032
GI	none	Score	175
Exons	3576..3728, 3584..3727, 4817..5032, 4824..5027		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.ol.tm	Method	TBLASTX:Maize
Start	4824	End	5534
GI	none	Score	287
Exons	4824..5027, 4826..5026, 5153..5188, 5153..5194, 5251..5352, 5252..5353, 5457..5534, 5458..5526		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.ol.ts	Method	TBLASTX:Soybean
Start	5153	End	5526
GI	none	Score	234
Exons	5153..5353, 5155..5352, 5457..5522, 5458..5526, 5473..5526		

Seq. No.	38190	Seq. ID	OJ990619_50.0211.C7
Gene No.	78559	Strand	+
Start	99	End	5534
Name	OJ990619_50.0211.C7.ol.tc	Method	TBLASTX:Cress
Start	5173	End	5530
GI	none	Score	231
Exons	5173..5352, 5174..5353, 5455..5526, 5456..5530		

Seq. No.	38191	Seq. ID	OJ990619_50.0211.C8
Gene No.	78560	Strand	+
Start	1	End	1524
Name	OJ990619_50.0211.C8.ol.gp	Method	AAT/GAP
Start	1	End	667
GI	2310623	Score	491
Exons	1..103, 162..272, 399..504, 603..667		
GI Descrip.	557474 5.0e-12 (U15179) ORF1 [Bacteroides ovatus]		

Seq. No.	38191	Seq. ID	OJ990619_50.0211.C8
Gene No.	78560	Strand	+
Start	1	End	1524
Name	OJ990619_50.0211.C8.ol.gs	Method	GENSCAN
Start	399	End	1524
GI	none	Score	.68
Exons	399..504, 603..695, 1511..1524		

Seq. No.	38191	Seq. ID	OJ990619_50.0211.C8
Gene No.	78560	Strand	+
Start	1	End	1524
Name	OJ990619_50.0211.C8.o2.gp	Method	AAT/GAP
Start	1251	End	1334
GI	2312838	Score	76
Exons	1251..1334		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	38192	Seq. ID	OJ990619_50.0211.C9
Gene No.	78561	Strand	+
Start	374	End	478
Name	OJ990619_50.0211.C9.ol.gs	Method	GENSCAN

Start 374  
GI none  
Exons 374..478

End 478  
Score .41

Seq. No. 38192  
Gene No. 78562  
Start 937  
Name OJ990619\_50.0211.C9.o1.gp  
Start 937  
GI none  
Exons 937..1160

Seq. ID OJ990619\_50.0211.C9  
Strand -  
End 1160  
Method AAT/GAP  
End 1160  
Score 418

Seq. No. 38192  
Gene No. 78563  
Start 1780  
Name OJ990619\_50.0211.C9.o2.gp  
Start 1215  
GI 3279\_1.R1084  
Exons 1215..2072  
GI Descrip. '1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon  
4-coumarate-CoA ligase gene, intron 1, partial sequence'

Seq. ID OJ990619\_50.0211.C9  
Strand -  
End 2328  
Method AAT/GAP  
End 2072  
Score 1657

Seq. No. 38192  
Gene No. 78563  
Start 1780  
Name OJ990619\_50.0211.C9.o1.tm  
Start 1455  
GI none  
Exons 1455..1532, 1456..1536, 1457..1570, 1545..1595, 1568..1636,  
1627..1659, 1628..1699, 1759..2151, 1759..2295, 1778..2305,  
2048..2299, 2221..2328

Seq. ID OJ990619\_50.0211.C9  
Strand -  
End 2328  
Method TBLASTX:Maize  
End 2328  
Score 101

Seq. No. 38192  
Gene No. 78563  
Start 1780  
Name OJ990619\_50.0211.C9.o2.tw  
Start 1498  
GI none  
Exons 1498..1521, 1529..1609, 1553..1618, 1555..1611, 1630..1734,  
1644..1676, 1645..1680, 1676..1702, 1780..1896, 1780..1896,  
1781..1897

Seq. ID OJ990619\_50.0211.C9  
Strand -  
End 2328  
Method TBLASTX:Wheat  
End 1897  
Score 82

Seq. No. 38192  
Gene No. 78563  
Start 1780  
Name OJ990619\_50.0211.C9.o1.ts  
Start 1763  
GI none  
Exons 1763..2005, 1780..2289, 2105..2284, 2212..2310

Seq. ID OJ990619\_50.0211.C9  
Strand -  
End 2328  
Method TBLASTX:Soybean  
End 2310  
Score 205

Seq. No. 38192  
Gene No. 78563  
Start 1780  
Name OJ990619\_50.0211.C9.o1.tc  
Start 1780  
GI none  
Exons 1780..1977, 1783..1974, 1784..1975, 1999..2265, 2159..2266,

Seq. ID OJ990619\_50.0211.C9  
Strand -  
End 2328  
Method TBLASTX:Cress  
End 2295  
Score 106

2263..2295, 2263..2295

Seq. No.	38192	Seq. ID	OJ990619_50.0211.C9
Gene No.	78563	Strand	-
Start	1780	End	2328
Name	OJ990619_50.0211.C9.o2.gs	Method	GENSCAN
Start	1780	End	2295
GI	none	Score	.96
Exons	1780..2295		

Seq. No.	38192	Seq. ID	OJ990619_50.0211.C9
Gene No.	78563	Strand	-
Start	1780	End	2328
Name	OJ990619_50.0211.C9.o1.np	Method	AAT/NAP
Start	1783	End	2295
GI	5031281	Score	590
Exons	1783..2295		
GI Descrip.	(AF139499) unknown [Prunus armeniaca]		

Seq. No.	38192	Seq. ID	OJ990619_50.0211.C9
Gene No.	78563	Strand	-
Start	1780	End	2328
Name	OJ990619_50.0211.C9.o1.tw	Method	TBLASTX:Wheat
Start	1912	End	2322
GI	none	Score	90
Exons	1912..2070, 1913..1975, 1918..1977, 1982..2035, 2038..2151, 2038..2310, 2099..2311, 2215..2322		

Seq. No.	38193	Seq. ID	OJ990619_50.0211.C10
Gene No.	78564	Strand	-
Start	72	End	3138
Name	OJ990619_50.0211.C10.o1.gs	Method	GENSCAN
Start	72	End	3138
GI	none	Score	.49
Exons	72..176, 361..447, 2968..3138		

Seq. No.	38193	Seq. ID	OJ990619_50.0211.C10
Gene No.	78564	Strand	-
Start	72	End	3138
Name	OJ990619_50.0211.C10.o1.gp	Method	AAT/GAP
Start	176	End	260
GI	3279_4.R1084	Score	137
Exons	176..260		
GI Descrip.	'5031281/gb AAD38146.1 AF139499 1 2.0e-56 (AF139499) unknown [Prunus armeniaca]		

Seq. No.	38194	Seq. ID	OJ990619_50.0211.C11
Gene No.	78565	Strand	+
Start	80	End	3729
Name	OJ990619_50.0211.C11.o1.gs	Method	GENSCAN
Start	80	End	2378
GI	none	Score	.65
Exons	80..116, 731..945, 1548..1607, 1886..2044, 2119..2183, 2188..2378		

Seq. No.	38194	Seq. ID	OJ990619_50.0211.C11
Gene No.	78565	Strand	+

Start	80	End	3729
Name	OJ990619_50.0211.C11.o1.np	Method	AAT/NAP
Start	740	End	3729
GI	6539567	Score	84
Exons	740..837, 2201..2403, 3312..3447, 3571..3729		
GI Descrip.	(AP000836) EST C72938(E2506) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome I BAC T5A14 genomic sequence; unknown protein (AC005223) [Oryza sativa]		

Seq. No.	38194	Seq. ID	OJ990619_50.0211.C11
Gene No.	78566	Strand	-
Start	3460	End	3787
Name	OJ990619_50.0211.C11.o2.gs	Method	GENSCAN
Start	3460	End	3787
GI	none	Score	.74
Exons	3460..3630, 3706..3787		

Seq. No.	38195	Seq. ID	OJ990619_50.0211.C12
Gene No.	78567	Strand	+
Start	1193	End	1444
Name	OJ990619_50.0211.C12.o1.gp	Method	AAT/GAP
Start	1193	End	1444
GI	90361.1.R1084	Score	488
Exons	1193..1444		
GI Descrip.	'4335745/gb AAD17422  2.0e-22 (AC006284) putative hydrolase (contains an esterase/lipase/thioesterase active site serine domain (prosite: PS50187) [Arabidopsis thaliana]'		

Seq. No.	38196	Seq. ID	OJ990619_50.0211.C14
Gene No.	78568	Strand	+
Start	64	End	435
Name	OJ990619_50.0211.C14.o1.gs	Method	GENSCAN
Start	64	End	435
GI	none	Score	.7
Exons	64..435		

Seq. No.	38196	Seq. ID	OJ990619_50.0211.C14
Gene No.	78569	Strand	-
Start	1	End	399
Name	OJ990619_50.0211.C14.o1.np	Method	AAT/NAP
Start	1	End	393
GI	6539553	Score	669
Exons	1..393		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597). [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	38196	Seq. ID	OJ990619_50.0211.C14
Gene No.	78569	Strand	-
Start	1	End	399
Name	OJ990619_50.0211.C14.o1.tm	Method	TBLASTX:Maize
Start	1	End	264
GI	none	Score	241
Exons	1..264, 2..256		

Seq. No.	38196	Seq. ID	OJ990619_50.0211.C14
Gene No.	78569	Strand	-
Start	1	End	399
Name	OJ990619_50.0211.C14.ol.tw	Method	TBLASTX:Wheat
Start	13	End	399
GI	none	Score	254
Exons	13..399, 14..388		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78570	Strand	+
Start	1378	End	4013
Name	OJ990619_50.0211.C16.ol.gs	Method	GENSCAN
Start	1378	End	2340
GI	none	Score	1
Exons	1378..2340		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78570	Strand	+
Start	1378	End	4013
Name	OJ990619_50.0211.C16.ol.np	Method	AAT/NAP
Start	1387	End	4013
GI	6523100	Score	638

Exons 1387..1585, 3257..4013  
 GI Descrip. (AL133315) putative protein [Arabidopsis thaliana]

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78570	Strand	+
Start	1378	End	4013
Name	OJ990619_50.0211.C16.o2.gs	Method	GENSCAN
Start	3028	End	4010
GI	none	Score	.58
Exons	3028..3451, 3571..4010		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78570	Strand	+
Start	1378	End	4013
Name	OJ990619_50.0211.C16.ol.gp	Method	AAT/GAP
Start	3343	End	3850
GI	5038938	Score	837
Exons	3343..3850		

GI Descrip. 4335745/gb|AAD17422| 2.0e-22 (AC006284) putative hydrolase  
 (contains an esterase/lipase/thioesterase active site serine  
 domain (prosite: PS50187)) [Arabidopsis thaliana]

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407
Name	OJ990619_50.0211.C16.ol.ts	Method	TBLASTX:Soybean
Start	1384	End	3947
GI	none	Score	139
Exons	1384..1566, 1588..1782, 1660..1761, 1804..1914, 1921..1962, 2062..2100, 2107..2268, 3118..3204, 3247..3345, 3344..3418, 3378..3596, 3473..3595, 3603..3662, 3654..3773, 3780..3947		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407



Name	OJ990619_50.0211.C16.o1.tc	Method	TBLASTX:Cress
Start	1390	End	4001
GI	none	Score	136
Exons	1390..1584, 1660..1743, 1804..1944, 1930..1983, 2158..2331, 3247..3345, 3288..3335, 3377..3412, 3378..3416, 3426..3623, 3473..3619, 3786..4001		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407
Name	OJ990619_50.0211.C16.o3.tm	Method	TBLASTX:Maize
Start	1444	End	3240
GI	none	Score	77
Exons	1444..1533, 3073..3240, 3075..3218		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407
Name	OJ990619_50.0211.C16.o1.tm	Method	TBLASTX:Maize
Start	1549	End	3611
GI	none	Score	133
Exons	1549, 1791, 1660, 1761, 1804, 1926, 1818, 1925, 3241, 3345, 3288, 3344, 3350, 3607, 3375, 3611		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407
Name	OJ990619_50.0211.C16.o2.tm	Method	TBLASTX:Maize
Start	1930	End	3905
GI	none	Score	62
Exons	1930..2049, 2055..2108, 2071..2151, 2158..2235, 3612..3749, 3623..3739, 3741..3905		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407
Name	OJ990619_50.0211.C16.o1.tw	Method	TBLASTX:Wheat
Start	2055	End	3848
GI	none	Score	113
Exons	2055..2108, 2056..2166, 3648..3848, 3650..3739, 3693..3743		

Seq. No.	38197	Seq. ID	OJ990619_50.0211.C16
Gene No.	78571	Strand	-
Start	4146	End	4407
Name	OJ990619_50.0211.C16.o2.gp	Method	AAT/GAP
Start	4146	End	4407
GI	none	Score	516
Exons	4146..4407		

Seq. No.	38198	Seq. ID	OJ990619_50.0211.C17
Gene No.	78572	Strand	-
Start	1	End	125
Name	OJ990619_50.0211.C17.o1.gp	Method	AAT/GAP
Start	1	End	125
GI	none	Score	128
Exons	1..125		

Seq. No.	38199	Seq. ID	OJ990619_50.0211.C19
Gene No.	78573	Strand	-
Start	161	End	587
Name	OJ990619_50.0211.C19.ol.gp	Method	AAT/GAP
Start	161	End	587
GI	4878407	Score	676
Exons	161..587		
GI Descrip.	6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	38200	Seq. ID	OJ990619_50.0211.C20
Gene No.	78574	Strand	-
Start	1	End	223
Name	OJ990619_50.0211.C20.ol.np	Method	AAT/NAP
Start	1	End	171
GI	6539553	Score	299
Exons	1..171		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	38200	Seq. ID	OJ990619_50.0211.C20
Gene No.	78574	Strand	-
Start	1	End	223
Name	OJ990619_50.0211.C20.ol.tw	Method	TBLASTX:Wheat
Start	16	End	223
GI	none	Score	153
Exons	16..180, 17..181, 177..212, 185..223		

Seq. No.	38201	Seq. ID	OJ990619_50.0211.C21
Gene No.	78575	Strand	+
Start	85	End	1472
Name	OJ990619_50.0211.C21.ol.np	Method	AAT/NAP
Start	85	End	1472
GI	6907088	Score	1021
Exons	85..222, 398..635, 1129..1472		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38201	Seq. ID	OJ990619_50.0211.C21
Gene No.	78576	Strand	-
Start	10	End	1379
Name	OJ990619_50.0211.C21.ol.gs	Method	GENSCAN
Start	10	End	1379
GI	none	Score	.79
Exons	10..57, 1295..1379		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78577	Strand	+
Start	154	End	1538
Name	OJ990619_50.0211.C23.ol.gs	Method	GENSCAN
Start	154	End	1538
GI	none	Score	.57
Exons	154..222, 351..404, 480..545, 643..762, 1351..1538		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+

Start	1780	End	4181
Name	OJ990619_50.0211.C23.o2.tw	Method	TBLASTX:Wheat
Start	1728	End	2071
GI	none	Score	42
Exons	1728..1766, 1739..1774, 1770..1910, 1771..1914, 1910..2071, 1949..2065		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.o1.np	Method	AAT/NAP
Start	1780	End	4181
GI	6539553	Score	4068
Exons	1780..4181		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.o2.tm	Method	TBLASTX:Maize
Start	1916	End	2223
GI	none	Score	350
Exons	1916..2221, 1924..2223		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.o1.tm	Method	TBLASTX:Maize
Start	2722	End	3044
GI	none	Score	268
Exons	2722..2976, 2729..3043, 2749..3042, 2877..3044		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.o2.ts	Method	TBLASTX:Soybean
Start	3071	End	3457
GI	none	Score	83
Exons	3071..3226, 3209..3457		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.o3.tw	Method	TBLASTX:Wheat
Start	3176	End	3514
GI	none	Score	261
Exons	3176..3514, 3308..3493		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.o3.tm	Method	TBLASTX:Maize
Start	3245	End	3679
GI	none	Score	300

Exons 3245..3679, 3454..3654

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.ol.ts	Method	TBLASTX:Soybean
Start	3467	End	3865
GI	none	Score	187
Exons	3467..3691, 3475..3645, 3692..3865, 3700..3738		

Seq. No.	38202	Seq. ID	OJ990619_50.0211.C23
Gene No.	78578	Strand	+
Start	1780	End	4181
Name	OJ990619_50.0211.C23.ol.tw	Method	TBLASTX:Wheat
Start	3515	End	4181
GI	none	Score	620
Exons	3515..3964, 3523..3969, 3651..3971, 3700..4002, 4022..4153, 4023..4154, 4151..4180, 4152..4181		

Seq. No.	38203	Seq. ID	OJ990619_50.0211.C24
Gene No.	78579	Strand	+
Start	1	End	2862
Name	OJ990619_50.0211.C24.ol.np	Method	AAT/NAP
Start	1	End	900
GI	6539553	Score	1417
Exons	1..900		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	38203	Seq. ID	OJ990619_50.0211.C24
Gene No.	78579	Strand	+
Start	1	End	2862
Name	OJ990619_50.0211.C24.ol.ts	Method	TBLASTX:Soybean
Start	4	End	283
GI	none	Score	206
Exons	4..282, 5..283		

Seq. No.	38203	Seq. ID	OJ990619_50.0211.C24
Gene No.	78579	Strand	+
Start	1	End	2862
Name	OJ990619_50.0211.C24.ol.gs	Method	GENSCAN
Start	35	End	2862
GI	none	Score	55
Exons	35..383, 542..690, 1410..1538, 1760..1836, 2030..2271, 2840..2862		

Seq. No.	38203	Seq. ID	OJ990619_50.0211.C24
Gene No.	78579	Strand	+
Start	1	End	2862
Name	OJ990619_50.0211.C24.ol.tm	Method	TBLASTX:Maize
Start	101	End	434
GI	none	Score	298
Exons	101..433, 101..418, 109..432, 204..434		

Seq. No.	38203	Seq. ID	OJ990619_50.0211.C24
----------	-------	---------	----------------------

Gene No.	78579	Strand	+
Start	1	End	2862
Name	OJ990619_50.0211.C24.o1.tw	Method	TBLASTX:Wheat
Start	289	End	764
GI	none	Score	93
Exons	289..360, 290..364, 290..370, 379..540, 380..541, 380..541, 540..764, 544..726, 549..764		

Seq. No.	38203	Seq. ID	OJ990619_50.0211.C24
Gene No.	78579	Strand	+
Start	1	End	2862
Name	OJ990619_50.0211.C24.o2.ts	Method	TBLASTX:Soybean
Start	296	End	636
GI	none	Score	87
Exons	296..409, 322..402, 428..541, 544..636		

Seq. No.	38204	Seq. ID	OJ990619_50.0211.C25
Gene No.	78580	Strand	+
Start	1	End	1564
Name	OJ990619_50.0211.C25.o1.np	Method	AAT/NAP
Start	1	End	1564
GI	5803253	Score	237
Exons	1..81, 505..606, 681..956, 1087..1209, 1522..1564		
GI Descrip.	(AP000399) ESTs AU068856(C50756), AU077979(C61370) correspond to a region of the predicted gene; similar to serine protease (AF097709) [Oryza sativa]		

Seq. No.	38204	Seq. ID	OJ990619_50.0211.C25
Gene No.	78580	Strand	+
Start	1	End	1564
Name	OJ990619_50.0211.C25.o1.gs	Method	GENSCAN
Start	96	End	1211
GI	none	Score	.81
Exons	96..246, 479..606, 681..956, 1087..1211		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78581	Strand	+
Start	1	End	1176
Name	OJ990619_50.0211.C26.o1.np	Method	AAT/NAP
Start	1	End	1176
GI	6815115	Score	184
Exons	1..29, 1047..1176		
GI Descrip.	(AB037543) ATP synthase beta subunit [Oryza sativa]		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78582	Strand	+
Start	1175	End	1908
Name	OJ990619_50.0211.C26.o2.np	Method	AAT/NAP
Start	1175	End	1908
GI	114599	Score	313
Exons	1175..1373, 1682..1908		
GI Descrip.	ATP SYNTHASE EPSILON CHAIN gi 67867 pir  PWZME H+-transporting ATP synthase (EC 3.6.1.34) epsilon chain - maize chloroplast gi 342578 (J01421) coupling factor epsilon subunit [Zea mays] gi 902228 emb CAA60292  (X86563) ATPase epsilon subunit [Zea mays]		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78583	Strand	-
Start	363	End	772
Name	OJ990619_50.0211.C26.o1.gs	Method	GENSCAN
Start	363	End	772
GI	none	Score	.53
Exons	363..474, 552..772		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o3.ts	Method	TBLASTX:Soybean
Start	1040	End	1374
GI	none	Score	63
Exons	1040..1126, 1042..1185, 1044..1190, 1045..1143, 1181..1372, 1184..1372, 1186..1374		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o4.tc	Method	TBLASTX:Cress
Start	1040	End	1373
GI	none	Score	72
Exons	1040..1126, 1044..1178, 1045..1143, 1181..1363, 1186..1338, 1344..1373		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o3.tm	Method	TBLASTX:Maize
Start	1835	End	2164
GI	none	Score	205
Exons	1835..2164, 1842..2153		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o1.ts	Method	TBLASTX:Soybean
Start	1844	End	2714
GI	none	Score	80
Exons	1844..1951, 1844..2713, 1944..2714		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o2.gs	Method	GENSCAN
Start	1844	End	2716
GI	none	Score	1
Exons	1844..2716		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o3.np	Method	AAT/NAP
Start	1847	End	4296
GI	6729531	Score	2771
Exons	1847..2830, 2864..4182, 4240..4296		

GI Descrip. (AL132977) anthranilate phosphoribosyltransferase-like protein  
[Arabidopsis thaliana]

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o1.tc	Method	TBLASTX:Cress
Start	1934	End	2596
GI	none	Score	223
Exons	1934..2329, 1944..2486, 2378..2596		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o1.tm	Method	TBLASTX:Maize
Start	2165	End	2794
GI	none	Score	683
Exons	2165..2794, 2205..2792, 2645..2794		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o2.tc	Method	TBLASTX:Cress
Start	2597	End	3266
GI	none	Score	126
Exons	2597..2827, 2643..2813, 2900..3055, 2901..3056, 3053..3265, 3054..3266		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o1.tw	Method	TBLASTX:Wheat
Start	2618	End	3047
GI	none	Score	206
Exons	2618..2830, 2622..2825, 2900..3046, 2901..3047		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o3.gs	Method	GENSCAN
Start	2840	End	4317
GI	none	Score	.68
Exons	2840..3829, 3856..4317		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o2.ts	Method	TBLASTX:Soybean
Start	2933	End	3754
GI	none	Score	246
Exons	2933..3238, 2940..3242, 3320..3652, 3504..3626, 3677..3754, 3678..3752		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o2.tm	Method	TBLASTX:Maize

Start	2990	End	3999
GI	none	Score	226
Exons	2990..3265, 2991..3242, 3320..3646, 3459..3641, 3844..3999		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o3.tc	Method	TBLASTX:Cress
Start	3317	End	3662
GI	none	Score	143
Exons	3317..3661, 3456..3662		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o4.tm	Method	TBLASTX:Maize
Start	3647	End	4056
GI	none	Score	131
Exons	3647..3760, 3648..3758, 3671..3766, 3796..3843, 3809..3844, 4000..4056		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o6.tc	Method	TBLASTX:Cress
Start	3677	End	3885
GI	none	Score	62
Exons	3677..3748, 3681..3749, 3799..3885, 3809..3883		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o4.ts	Method	TBLASTX:Soybean
Start	3805	End	4104
GI	none	Score	70
Exons	3805..3897, 3809..3853, 3892..4056, 3956..4057, 4063..4104		

Seq. No.	38205	Seq. ID	OJ990619_50.0211.C26
Gene No.	78584	Strand	-
Start	1844	End	4317
Name	OJ990619_50.0211.C26.o5.tc	Method	TBLASTX:Cress
Start	3892	End	4174
GI	none	Score	120
Exons	3892..4056, 3950..4057, 4063..4164, 4067..4174		

Seq. No.	38206	Seq. ID	OJ990619_50.0211.C27
Gene No.	78585	Strand	+
Start	1449	End	2314
Name	OJ990619_50.0211.C27.o1.gs	Method	GENSCAN
Start	1449	End	2314
GI	none	Score	.5
Exons	1449..1515, 1720..1821, 2094..2314		

Seq. No.	38206	Seq. ID	OJ990619_50.0211.C27
Gene No.	78585	Strand	+
Start	1449	End	2314
Name	OJ990619_50.0211.C27.o1.gp	Method	AAT/GAP



Start	1893	End	2250
GI	uC-osrocyp003c08a1	Score	660
Exons	1893..2250		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	38206	Seq. ID	OJ990619_50.0211.C27
Gene No.	78586	Strand	-
Start	181	End	2556
Name	OJ990619_50.0211.C27.o1.np	Method	AAT/NAP
Start	181	End	2556
GI	6664324	Score	87
Exons	181..208, 2113..2250, 2531..2556		
GI Descrip.	(AC006932) T27G7.2 [Arabidopsis thaliana]		

Seq. No.	38207	Seq. ID	OJ990619_50.0211.C28
Gene No.	78587	Strand	-
Start	83	End	343
Name	OJ990619_50.0211.C28.o1.gs	Method	GENSCAN
Start	83	End	343
GI	none	Score	.68
Exons	83..244, 326..343		

Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o1.np	Method	AAT/NAP
Start	1	End	954
GI	6539553	Score	1614
Exons	1..954		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o1.tm	Method	TBLASTX:Maize
Start	1	End	441
GI	none	Score	349
Exons	1..441, 9..176, 130..312, 246..356		

Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o1.tc	Method	TBLASTX:Cress
Start	1	End	213
GI	none	Score	216
Exons	1..213		

Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o1.tw	Method	TBLASTX:Wheat
Start	10	End	762
GI	none	Score	300

Exons	10..339, 334..540, 408..530, 691..762		
Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o2.ts	Method	TBLASTX:Soybean
Start	31	End	375
GI	none	Score	289
Exons	31..375, 136..315		
Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o1.ts	Method	TBLASTX:Soybean
Start	393	End	738
GI	none	Score	315
Exons	393..593, 394..738		
Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o2.tm	Method	TBLASTX:Maize
Start	549	End	888
GI	none	Score	322
Exons	549..887, 550..888		
Seq. No.	38208	Seq. ID	OJ990619_50.0211.C29
Gene No.	78588	Strand	+
Start	1	End	954
Name	OJ990619_50.0211.C29.o2.tw	Method	TBLASTX:Wheat
Start	763	End	954
GI	none	Score	78
Exons	763..819, 765..815, 834..947, 834..947, 835..954, 835..954		
Seq. No.	38209	Seq. ID	OJ990619_50.0211.C30
Gene No.	78589	Strand	-
Start	1	End	1395
Name	OJ990619_50.0211.C30.o1.np	Method	AAT/NAP
Start	1	End	1395
GI	6729523	Score	160
Exons	1..35, 564..634, 918..1395		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		
Seq. No.	38209	Seq. ID	OJ990619_50.0211.C30
Gene No.	78589	Strand	-
Start	1	End	1395
Name	OJ990619_50.0211.C30.o1.gs	Method	GENSCAN
Start	286	End	1178
GI	none	Score	.8
Exons	286..366, 574..634, 918..1058, 1155..1178		
Seq. No.	38210	Seq. ID	OJ990619_50.0211.C32
Gene No.	78590	Strand	-
Start	1	End	1644
Name	OJ990619_50.0211.C32.o1.np	Method	AAT/NAP
Start	1	End	865
GI	3913192	Score	564

Exons 1..865  
 GI Descrip. CYTOCHROME P450 93A1 gi|2129824|pir||S62899 cytochrome P450 (CYP93 A1) - soybean gi|1232111|dbj|BAA12159| (D83968)  
 Cytochrome P-450 (CYP93A1) [Glycine max]  
 gi|1588679|prf||2209281A cytochrome P450 [Glycine max]

Seq. No.	38210	Seq. ID	OJ990619_50.0211.C32
Gene No.	78590	Strand	-
Start	1	End	1644
Name	OJ990619_50.0211.C32.o2.np	Method	AAT/NAP
Start	1	End	1644
GI	6063557	Score	259
Exons	1..230, 580..717, 1081..1216, 1465..1644		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	38210	Seq. ID	OJ990619_50.0211.C32
Gene No.	78590	Strand	-
Start	1	End	1644
Name	OJ990619_50.0211.C32.o1.ts	Method	TBLASTX:Soybean
Start	3	End	747
GI	none	Score	71
Exons	3..101, 72..287, 117..263, 151..288, 261..554, 438..584, 564..671, 565..747		

Seq. No.	38210	Seq. ID	OJ990619_50.0211.C32
Gene No.	78590	Strand	-
Start	1	End	1644
Name	OJ990619_50.0211.C32.o1.tm	Method	TBLASTX:Maize
Start	93	End	753
GI	none	Score	63
Exons	93..269, 94..249, 366..671, 565..753, 628..741		

Seq. No.	38210	Seq. ID	OJ990619_50.0211.C32
Gene No.	78590	Strand	-
Start	1	End	1644
Name	OJ990619_50.0211.C32.o1.tc	Method	TBLASTX:Cress
Start	288	End	678
GI	none	Score	109
Exons	288..671, 490..678		

Seq. No.	38211	Seq. ID	OJ990619_50.0211.C34
Gene No.	78591	Strand	+
Start	1184	End	1811
Name	OJ990619_50.0211.C34.o1.gs	Method	GENSCAN
Start	1184	End	1811
GI	none	Score	71
Exons	1184..1486, 1707..1811		

Seq. No.	38211	Seq. ID	OJ990619_50.0211.C34
Gene No.	78592	Strand	+
Start	1764	End	4986
Name	OJ990619_50.0211.C34.o1.np	Method	AAT/NAP
Start	1764	End	4986
GI	5803253	Score	75
Exons	1764..1797, 4209..4295, 4392..4659, 4876..4986		
GI Descrip.	(AP000399) ESTs AU068856(C50756), AU077979(C61370) correspond to a region of the predicted gene; similar to serine protease		

(AF097709) [Oryza sativa]

Seq. No.	38212	Seq. ID	OJ990619_50.0211.C35
Gene No.	78593	Strand	-
Start	2632	End	2696
Name	OJ990619_50.0211.C35.o2.gs	Method	GENSCAN
Start	2632	End	2696
GI	none	Score	.92
Exons	2632..2696		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o2.ts	Method	TBLASTX:Soybean
Start	600	End	838
GI	none	Score	162
Exons	600..836, 608..838, 620..838		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o1.gs	Method	GENSCAN
Start	617	End	1400
GI	none	Score	1
Exons	617..1400		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o2.tm	Method	TBLASTX:Maize
Start	617	End	898
GI	none	Score	103
Exons	617..898, 618..827		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o1.tc	Method	TBLASTX:Cress
Start	617	End	1150
GI	none	Score	129
Exons	617..1150, 618..827, 814..975, 999..1142		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o1.np	Method	AAT/NAP
Start	620	End	1472
GI	4263522	Score	758
Exons	620..1472		
GI Descrip.	(AC004044) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o1.ts	Method	TBLASTX:Soybean
Start	839	End	1378
GI	none	Score	111

Exons 839..1378, 842..1195, 1011..1322

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o1.tm	Method	TBLASTX:Maize
Start	920	End	1454
GI	none	Score	244
Exons	920..1447, 957..1454		

Seq. No.	38213	Seq. ID	OJ990619_50.0211.C38
Gene No.	78594	Strand	-
Start	617	End	1472
Name	OJ990619_50.0211.C38.o2.tc	Method	TBLASTX:Cress
Start	1199	End	1448
GI	none	Score	119
Exons	1199..1447, 1206..1448		

Seq. No.	38214	Seq. ID	OJ990619_50.0211.C39
Gene No.	78595	Strand	+
Start	881	End	1348
Name	OJ990619_50.0211.C39.o1.gs	Method	GENSCAN
Start	881	End	1348
GI	none	Score	.87
Exons	881..1348		

Seq. No.	38214	Seq. ID	OJ990619_50.0211.C39
Gene No.	78596	Strand	+
Start	5555	End	7568
Name	OJ990619_50.0211.C39.o2.np	Method	AAT/NAP
Start	5555	End	7568
GI	4049403	Score	524
Exons	5555..6628, 6840..7183, 7235..7568		
GI Descrip.	(AJ131708) gamma response I protein [Arabidopsis thaliana]		

Seq. No.	38214	Seq. ID	OJ990619_50.0211.C39
Gene No.	78597	Strand	-
Start	1	End	1051
Name	OJ990619_50.0211.C39.o1.np	Method	AAT/NAP
Start	1	End	1051
GI	1707007	Score	303
Exons	1..275, 819..1051		
GI Descrip.	(U78721) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38214	Seq. ID	OJ990619_50.0211.C39
Gene No.	78597	Strand	-
Start	1	End	1051
Name	OJ990619_50.0211.C39.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1044
GI	none	Score	103
Exons	1..150, 1..282, 5..205, 6..287, 224..277, 817..1044		

Seq. No.	38214	Seq. ID	OJ990619_50.0211.C39
Gene No.	78598	Strand	
Start	5572	End	6199
Name	OJ990619_50.0211.C39.o1.tm	Method	TBLASTX:Maize
Start	5572	End	6199

GI	none	Score	168
Exons	5572..5706, 5573..5707, 5582..5716, 5687..5872, 5743..5922, 5820..5921, 6064..6129, 6071..6118, 6122..6181, 6128..6199		

Seq. No.	38214	Seq. ID	OJ990619_50.0211.C39
Gene No.	78599	Strand	
Start	6947	End	7231
Name	OJ990619_50.0211.C39.o2.tm	Method	TBLASTX:Maize
Start	6947	End	7231
GI	none	Score	62
Exons	6947..7027, 6951..7037, 7044..7154, 7045..7197, 7046..7198, 7108..7200, 7190..7231		

Seq. No.	38215	Seq. ID	OJ990619_50.0211.C40
Gene No.	78600	Strand	-
Start	4099	End	4473
Name	OJ990619_50.0211.C40.o2.gs	Method	GENSCAN
Start	4099	End	4404
GI	none	Score	.81
Exons	4099..4121, 4233..4404		

Seq. No.	38215	Seq. ID	OJ990619_50.0211.C40
Gene No.	78600	Strand	-
Start	4099	End	4473
Name	OJ990619_50.0211.C40.o1.tw	Method	TBLASTX:Wheat
Start	4231	End	4473
GI	none	Score	57
Exons	4231..4299, 4231..4470, 4232..4471, 4232..4471, 4336..4473		

Seq. No.	38215	Seq. ID	OJ990619_50.0211.C40
Gene No.	78600	Strand	-
Start	4099	End	4473
Name	OJ990619_50.0211.C40.o1.tm	Method	TBLASTX:Maize
Start	4242	End	4473
GI	none	Score	164
Exons	4242..4430, 4243..4470, 4244..4471, 4336..4473		

Seq. No.	38216	Seq. ID	OJ990619_50.0211.C41
Gene No.	78601	Strand	-
Start	179	End	1394
Name	OJ990619_50.0211.C41.o1.gp	Method	AAT/GAP
Start	179	End	672
GI	2428237	Score	672
Exons	179..495, 608..672		

GI Descrip. 4567302/gb[AAD23713.1|AC005956\_2 6.0e-13 (AC005956) unknown protein [Arabidopsis thaliana]

Seq. No.	38216	Seq. ID	OJ990619_50.0211.C41
Gene No.	78601	Strand	-
Start	179	End	1394
Name	OJ990619_50.0211.C41.o1.np	Method	AAT/NAP
Start	421	End	1394
GI	6729523	Score	80
Exons	421..495, 608..679, 1340..1394		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		

Seq. No.	38216	Seq. ID	OJ990619_50.0211.C41
----------	-------	---------	----------------------

Gene No.	78601	Strand	-
Start	179	End	1394
Name	OJ990619_50.0211.C41.o1.tm	Method	TBLASTX:Maize
Start	421	End	697
GI	none	Score	99
Exons	421..498, 421..498, 429..500, 608..679, 609..677, 610..678, 626..697		

Seq. No.	38217	Seq. ID	OJ990619_50.0211.C42
Gene No.	78602	Strand	-
Start	2267	End	4574
Name	OJ990619_50.0211.C42.o1.gs	Method	GENSCAN
Start	2267	End	3282
GI	none	Score	.52
Exons	2267..2339, 2710..3058, 3095..3282		

Seq. No.	38217	Seq. ID	OJ990619_50.0211.C42
Gene No.	78602	Strand	-
Start	2267	End	4574
Name	OJ990619_50.0211.C42.o2.np	Method	AAT/NAP
Start	2532	End	4383
GI	5852093	Score	56
Exons	2532..2574, 4279..4383		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	38217	Seq. ID	OJ990619_50.0211.C42
Gene No.	78602	Strand	-
Start	2267	End	4574
Name	OJ990619_50.0211.C42.o1.np	Method	AAT/NAP
Start	2572	End	4574
GI	6907106	Score	435
Exons	2572..2779, 2853..3195, 4539..4574		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38217	Seq. ID	OJ990619_50.0211.C42
Gene No.	78602	Strand	-
Start	2267	End	4574
Name	OJ990619_50.0211.C42.o1.tm	Method	TBLASTX:Maize
Start	2670	End	3041
GI	none	Score	61
Exons	2670..2717, 2671..2715, 2684..2797, 2724..2798, 2729..2800, 2793..2876, 2804..2827, 2805..3041, 2817..3023		

Seq. No.	38218	Seq. ID	OJ990619_50.0211.C43
Gene No.	78603	Strand	-
Start	998	End	3089
Name	OJ990619_50.0211.C43.o1.np	Method	AAT/NAP
Start	998	End	3089
GI	6069653	Score	956
Exons	998..2012, 2094..2853, 2888..3089		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	38219	Seq. ID	OJ990619_50.0211.C44
Gene No.	78604	Strand	+
Start	303	End	1341
Name	OJ990619_50.0211.C44.o1.gs	Method	GENSCAN

Start 303  
GI none  
Exons 303..327, 1319..1341

End 1341  
Score .47

Seq. No. 38219  
Gene No. 78605  
Start 2741  
Name OJ990619\_50.0211.C44.o1.np  
Start 2741  
GI 103076  
Exons 2741..2849, 2891..3101  
GI Descrip. Bkm-like sex-determining region hypothetical protein CS314 -  
fruit fly (*Drosophila melanogaster*) (fragment)

Seq. ID OJ990619\_50.0211.C44  
Strand +  
End 3101  
Method AAT/NAP  
End 3101  
Score 124

Seq. No. 38219  
Gene No. 78606  
Start 1847  
Name OJ990619\_50.0211.C44.o2.gs  
Start 1847  
GI none  
Exons 1847..1863, 3357..3688, 3811..4343, 4501..4633, 5524..5729,  
5958..6085, 6243..6346, 6651..6854, 7979..8016

Seq. ID OJ990619\_50.0211.C44  
Strand -  
End 8228  
Method GENSCAN  
End 8016  
Score .49

Seq. No. 38219  
Gene No. 78606  
Start 1847  
Name OJ990619\_50.0211.C44.o2.np  
Start 3358  
GI 6907086  
Exons 3358..3688, 3794..3864, 3906..4138, 4197..4968  
GI Descrip. (AP001129) hypothetical protein [*Oryza sativa*]

Seq. ID OJ990619\_50.0211.C44  
Strand -  
End 8228  
Method AAT/NAP  
End 4968  
Score 562

Seq. No. 38219  
Gene No. 78606  
Start 1847  
Name OJ990619\_50.0211.C44.o3.np  
Start 5279  
GI 4680186  
Exons 5279..5337, 5965..6098, 6680..6842, 8152..8228  
GI Descrip. (AF111709) unknown [*Oryza sativa* subsp. *indica*]

Seq. ID OJ990619\_50.0211.C44  
Strand -  
End 8228  
Method AAT/NAP  
End 8228  
Score 178

Seq. No. 38220  
Gene No. 78607  
Start 48  
Name OJ990619\_50.0211.C45.o1.gs  
Start 48  
GI none  
Exons 48..312, 405..548

Seq. ID OJ990619\_50.0211.C45  
Strand +  
End 548  
Method GENSCAN  
End 548  
Score .88

Seq. No. 38220  
Gene No. 78608  
Start 1385  
Name OJ990619\_50.0211.C45.o1.gp  
Start 1385  
GI uC-osflcyp033a04b1  
Exons 1385..1440  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 *Oryza sativa* genomic

Seq. ID OJ990619\_50.0211.C45  
Strand +  
End 1440  
Method AAT/GAP  
End 1440  
Score 79



DNA, chromosome 1, clone:P0711E10'

Seq. No.	38220	Seq. ID	OJ990619_50.0211.C45
Gene No.	78609	Strand	-
Start	1	End	637
Name	OJ990619_50.0211.C45.o1.np	Method	AAT/NAP
Start	1	End	637
GI	5852180	Score	460
Exons	1..466, 518..637		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	38220	Seq. ID	OJ990619_50.0211.C45
Gene No.	78610	Strand	-
Start	820	End	2907
Name	OJ990619_50.0211.C45.o2.gs	Method	GENSCAN
Start	820	End	2028
GI	none	Score	.67
Exons	820..913, 1382..1464, 1939..2028		

Seq. No.	38220	Seq. ID	OJ990619_50.0211.C45
Gene No.	78610	Strand	-
Start	820	End	2907
Name	OJ990619_50.0211.C45.o2.np	Method	AAT/NAP
Start	1318	End	1439
GI	4680186	Score	180
Exons	1318..1439		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38220	Seq. ID	OJ990619_50.0211.C45
Gene No.	78610	Strand	-
Start	820	End	2907
Name	OJ990619_50.0211.C45.o3.np	Method	AAT/NAP
Start	1552	End	2907
GI	6907086	Score	648
Exons	1552..1773, 1811..1949, 2000..2065, 2302..2537, 2597..2907		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38220	Seq. ID	OJ990619_50.0211.C45
Gene No.	78610	Strand	-
Start	820	End	2907
Name	OJ990619_50.0211.C45.o3.gs	Method	GENSCAN
Start	2631	End	2788
GI	none	Score	1
Exons	2631..2788		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78611	Strand	+
Start	288	End	1994
Name	OJ990619_50.0211.C46.o2.np	Method	AAT/NAP
Start	288	End	1804
GI	5777623	Score	286
Exons	288..544, 1762..1804		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78611	Strand	+
Start	288	End	1994

Name	OJ990619_50.0211.C46.o1.gs	Method	GENSCAN
Start	747	End	1397
GI	none	Score	.71
Exons	747..801, 1324..1397		

  

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78611	Strand	+
Start	288	End	1994
Name	OJ990619_50.0211.C46.o1.gp	Method	AAT/GAP
Start	1562	End	1994
GI	uC-osflcyp033a04b1	Score	559
Exons	1562..1589, 1664..1994		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

  

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78612	Strand	+
Start	3732	End	6619
Name	OJ990619_50.0211.C46.o4.np	Method	AAT/NAP
Start	3717	End	6589
GI	5922620	Score	649
Exons	3717..3900, 4662..5098, 6459..6589		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

  

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78612	Strand	+
Start	3732	End	6619
Name	OJ990619_50.0211.C46.o2.gs	Method	GENSCAN
Start	3732	End	6619
GI	none	Score	.7
Exons	3732..3893, 4292..4441, 4943..5037, 5198..5282, 5643..5812, 5865..6002, 6472..6619		

  

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78613	Strand	+
Start	11688	End	13165
Name	OJ990619_50.0211.C46.o6.np	Method	AAT/NAP
Start	11441	End	13165
GI	6907086	Score	1135
Exons	11441..12215, 12279..12553, 12756..12953, 13011..13165		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

  

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78613	Strand	+
Start	11688	End	13165
Name	OJ990619_50.0211.C46.o4.gs	Method	GENSCAN
Start	11688	End	12182
GI	none	Score	1
Exons	11688..12182		

  

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78614	Strand	+
Start	14951	End	17132

Name	OJ990619_50.0211.C46.o5.gs	Method	GENSCAN
Start	14951	End	16892
GI	none	Score	.91
Exons	14951..15360, 15472..15649, 15739..15900, 16347..16892		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78614	Strand	+
Start	14951	End	17132
Name	OJ990619_50.0211.C46.o7.np	Method	AAT/NAP
Start	15023	End	16886
GI	4539677	Score	1137
Exons	15023..15373, 15472..15649, 15739..15900, 16347..16886		
GI Descrip.	(AF061282) patatin-like protein [Sorghum bicolor]		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78614	Strand	+
Start	14951	End	17132
Name	OJ990619_50.0211.C46.o3.gp	Method	AAT/GAP
Start	15493	End	16541
GI	3767856	Score	876
Exons	15493..15649, 15739..15900, 16347..16541		
GI Descrip.	4539676/gb AAD22169.1 AF061282.23.3.0e-36 (AF061282) patatin-like protein [Sorghum bicolor]		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78614	Strand	+
Start	14951	End	17132
Name	OJ990619_50.0211.C46.o4.gp	Method	AAT/GAP
Start	16664	End	17132
GI	3767857	Score	881
Exons	16664..17132		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78615	Strand	-
Start	1	End	815
Name	OJ990619_50.0211.C46.o1.np	Method	AAT/NAP
Start	1	End	121
GI	6069659	Score	107
Exons	1..121		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78615	Strand	-
Start	1	End	815
Name	OJ990619_50.0211.C46.o3.np	Method	AAT/NAP
Start	1	End	815
GI	6907088	Score	549
Exons	1..19, 265..502, 678..815		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o3.gs	Method	GENSCAN
Start	7760	End	8368
GI	none	Score	1
Exons	7760..8368		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o1.tm	Method	TBLASTX:Maize
Start	7827	End	16865
GI	none	Score	44
Exons	7827..7901, 7944..8159, 14990..15370, 15070..15372, 15464..15649, 15505..15657, 15711..15833, 15736..15855, 15737..15856, 15738..15896, 15852..15965, 15853..15900, 16415..16783, 16419..16865		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o5.np	Method	AAT/NAP
Start	8152	End	9597
GI	6907088	Score	1033
Exons	8152..8550, 9046..9283, 9460..9597		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o1.tw	Method	TBLASTX:Wheat
Start	14975	End	15213
GI	none	Score	40
Exons	14975..15007, 15040..15138, 15041..15211, 15046..15213, 15050..15136		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o2.tc	Method	TBLASTX:Cress
Start	15032	End	16865
GI	none	Score	385
Exons	15032..15352, 15073..15351, 15500..15655, 15505..15639, 15736..15828, 15771..15827, 16806..16865		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o1.ts	Method	TBLASTX:Soybean
Start	15073	End	15535
GI	none	Score	371
Exons	15073..15363, 15074..15364, 15458..15535, 15479..15529		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o3.ts	Method	TBLASTX:Soybean
Start	15545	End	15905
GI	none	Score	110
Exons	15545..15652, 15550..15639, 15754..15831, 15762..15815, 15858..15905, 15859..15900		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
----------	-------	---------	----------------------

Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o1.tc	Method	TBLASTX:Cress
Start	15835	End	16787
GI	none	Score	83
Exons	15835..15900, 16388..16777, 16389..16787		

Seq. No.	38221	Seq. ID	OJ990619_50.0211.C46
Gene No.	78616	Strand	-
Start	7760	End	16865
Name	OJ990619_50.0211.C46.o2.ts	Method	TBLASTX:Soybean
Start	16401	End	16841
GI	none	Score	123
Exons	16401..16529, 16433..16528, 16536..16841, 16538..16777		

Seq. No.	38222	Seq. ID	OJ990619_50.0211.C47
Gene No.	78617	Strand	+
Start	4075	End	5882
Name	OJ990619_50.0211.C47.o1.np	Method	AAT/NAP
Start	4075	End	5882
GI	6907086	Score	1180
Exons	4075..4837, 4898..5069, 5300..5483, 5565..5653, 5719..5882		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78618	Strand	+
Start	849	End	3600
Name	OJ990619_50.0211.C48.o1.gs	Method	GENSCAN
Start	849	End	3390
GI	none	Score	.91
Exons	849..1054, 1073..1667, 1763..1924, 2734..3390		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78618	Strand	+
Start	849	End	3600
Name	OJ990619_50.0211.C48.o1.np	Method	AAT/NAP
Start	1176	End	3396
GI	2739381	Score	1091
Exons	1176..1688, 1784..1924, 2842..3396		
GI Descrip.	(AC002505) similar to latex allergen from Hevea brasiliensis [Arabidopsis thaliana]		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78618	Strand	+
Start	849	End	3600
Name	OJ990619_50.0211.C48.o1.gp	Method	AAT/GAP
Start	3177	End	3600
GI	none	Score	769
Exons	3177..3600		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78619	Strand	+
Start	4126	End	6423
Name	OJ990619_50.0211.C48.o2.gs	Method	GENSCAN
Start	4126	End	6423
GI	none	Score	.5
Exons	4126..4186, 4224..4239, 4397..4552, 5078..5194, 6363..6423		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78620	Strand	+
Start	9596	End	10120
Name	OJ990619_50.0211.C48.o2.gp	Method	AAT/GAP
Start	9596	End	10120
GI	none	Score	1006
Exons	9596..10120		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78621	Strand	-
Start	7115	End	7472
Name	OJ990619_50.0211.C48.o3.gs	Method	GENSCAN
Start	7115	End	7472
GI	none	Score	.79
Exons	7115..7222, 7365..7472		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o4.tw	Method	TBLASTX:Wheat
Start	1084	End	1340
GI	none	Score	41
Exons	1084..1146, 1116..1142, 1212..1340, 1214..1279		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o1.tc	Method	TBLASTX:Cress
Start	1211	End	3384
GI	none	Score	366
Exons	1211..1480, 1215..1481, 1512..1670, 1523..1657, 1730..1966, 1795..1923, 2842..3384		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o1.ts	Method	TBLASTX:Soybean
Start	1214	End	1553
GI	none	Score	360
Exons	1214..1279, 1215..1481, 1340..1480, 1512..1553		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o2.tm	Method	TBLASTX:Maize
Start	1215	End	3423
GI	none	Score	346
Exons	1215..1526, 1264..1320, 1302..1478, 1523..1660, 1524..1664, 1760..1879, 1762..1881, 1762..1962, 1877..1924, 2842..3423, 2866..3114, 2907..3269, 3193..3351		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o3.ts	Method	TBLASTX:Soybean
Start	2890	End	3464

GI	none	Score	127
Exons	2890..3021, 3031..3309, 3420..3464		
Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o2.np	Method	AAT/NAP
Start	10357	End	13914
GI	2244915	Score	648
Exons	10357..10378, 11592..12065, 12106..12526, 12575..13914		
GI Descrip.	(Z97339) reverse transcriptase like protein [Arabidopsis thaliana]		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o5.tw	Method	TBLASTX:Wheat
Start	11500	End	11859
GI	none	Score	75
Exons	11500..11553, 11560..11640, 11566..11670, 11707..11859		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o3.tm	Method	TBLASTX:Maize
Start	11953	End	12294
GI	none	Score	76
Exons	11953..12066, 11953..12099, 12073..12294, 12110..12247		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o1.tw	Method	TBLASTX:Wheat
Start	12100	End	12516
GI	none	Score	110
Exons	12100..12147, 12154..12516, 12167..12514		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o2.ts	Method	TBLASTX:Soybean
Start	12139	End	12666
GI	none	Score	79
Exons	12139..12324, 12167..12262, 12313..12666, 12317..12559		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o1.tm	Method	TBLASTX:Maize
Start	12250	End	13160
GI	none	Score	109
Exons	12250..12273, 12295..13143, 12611..12748, 12772..13110, 13007..13117, 13119..13160		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914

Name	OJ990619_50.0211.C48.o2.tw	Method	TBLASTX:Wheat
Start	12595	End	12939
GI	none	Score	63
Exons	12595..12747, 12608..12730, 12796..12939, 12821..12934		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o6.tw	Method	TBLASTX:Wheat
Start	12958	End	13117
GI	none	Score	91
Exons	12958..13116, 12964..13116, 12977..13117		

Seq. No.	38223	Seq. ID	OJ990619_50.0211.C48
Gene No.	78622	Strand	-
Start	10357	End	13914
Name	OJ990619_50.0211.C48.o3.tw	Method	TBLASTX:Wheat
Start	13535	End	13900
GI	none	Score	219
Exons	13535..13900		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78623	Strand	+
Start	6788	End	19551
Name	OJ990619_50.0211.C49.o3.gs	Method	GENSCAN
Start	6788	End	11192
GI	none	Score	.89
Exons	6788..7072, 8104..8181, 8498..8629, 9693..9768, 10084..10164, 11071..11192		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78623	Strand	+
Start	6788	End	19551
Name	OJ990619_50.0211.C49.o1.np	Method	AAT/NAP
Start	6961	End	19551
GI	1091678	Score	1419
Exons	6961..7048, 14721..14828, 16725..18741, 19485..19551		
GI Descrip.	activator-like transposable element [Pennisetum glaucum]		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78623	Strand	+
Start	6788	End	19551
Name	OJ990619_50.0211.C49.o5.gs	Method	GENSCAN
Start	15173	End	19004
GI	none	Score	.52
Exons	15173..15420, 16194..16468, 16623..16895, 17001..17587, 18182..18455, 18746..18837, 18981..19004		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78624	Strand	+
Start	25873	End	26332
Name	OJ990619_50.0211.C49.o4.gp	Method	AAT/GAP
Start	25873	End	26332
GI	uC-osflcyp112ellal	Score	920
Exons	25873..26332		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		



Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78625	Strand	+
Start	28458	End	28959
Name	OJ990619_50.0211.C49.o7.gp	Method	AAT/GAP
Start	28458	End	28959
GI	3762464	Score	924
Exons	28458..28959		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78626	Strand	-
Start	10409	End	10606
Name	OJ990619_50.0211.C49.o1.gp	Method	AAT/GAP
Start	10409	End	10606
GI	3106974	Score	367
Exons	10409..10606		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78627	Strand	-
Start	11428	End	15345
Name	OJ990619_50.0211.C49.o4.gs	Method	GENSCAN
Start	11428	End	15016
GI	none	Score	.87
Exons	11428..11575, 14302..14413, 14517..14610, 14705..15016		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78627	Strand	-
Start	11428	End	15345
Name	OJ990619_50.0211.C49.o2.gp	Method	AAT/GAP
Start	12549	End	13025
GI	LIB3431-020-P1-K1-D3	Score	921
Exons	12549..13025		
GI Descrip.	'4335745/gb AAD17422  2.0e-22 (AC006284) putative hydrolase (contains an esterase/lipase/thioesterase active site serine domain (prosite: PS50187) [Arabidopsis thaliana]'		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78627	Strand	-
Start	11428	End	15345
Name	OJ990619_50.0211.C49.o3.gp	Method	AAT/GAP
Start	14869	End	15345
GI	427727	Score	653
Exons	14869..14985, 15075..15345		
GI Descrip.	6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78628	Strand	-
Start	18005	End	24740
Name	OJ990619_50.0211.C49.o2.np	Method	AAT/NAP
Start	18005	End	21809
GI	6721547	Score	79
Exons	18005..18058, 21725..21809		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78628	Strand	-

Start	18005	End	24740
Name	OJ990619_50.0211.C49.o6.gs	Method	GENSCAN
Start	20162	End	24740
GI	none	Score	.52
Exons	20162..20293, 20747..20828, 24661..24740		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78629	Strand	-
Start	25821	End	32466
Name	OJ990619_50.0211.C49.o7.gs	Method	GENSCAN
Start	25821	End	32466
GI	none	Score	.8
Exons	25821..25959, 26539..26822, 27585..27710, 27966..28041, 28056..28152, 28410..28572, 28670..28750, 29212..29295, 29327..29506, 29921..30041, 30170..30522, 30597..30992, 31118..31234, 31347..31550, 32062..32466		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78629	Strand	-
Start	25821	End	32466
Name	OJ990619_50.0211.C49.o3.np	Method	AAT/NAP
Start	26523	End	31493
GI	4006868	Score	.828
Exons	26523..26822, 27585..27695, 29206..29295, 29447..29506, 29921..30020, 30170..30282, 30346..30992, 31118..31234, 31347..31493		

GI Descrip. (Z99707) putative protein [Arabidopsis thaliana]

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78629	Strand	-
Start	25821	End	32466
Name	OJ990619_50.0211.C49.o5.gp	Method	AAT/GAP
Start	26641	End	27814
GI	LIB3433-052-P1-K1-G10	Score	730
Exons	26641..26822, 27585..27814		
GI Descrip.	'4006868/emb CAB16786.1  4.0e-33 (Z99707) putative protein [Arabidopsis thaliana]'		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78629	Strand	-
Start	25821	End	32466
Name	OJ990619_50.0211.C49.o6.gp	Method	AAT/GAP
Start	28149	End	28445
GI	2431514	Score	497
Exons	28149..28445		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78629	Strand	-
Start	25821	End	32466
Name	OJ990619_50.0211.C49.o8.gp	Method	AAT/GAP
Start	29205	End	30460
GI	uC-osflcyp112ellb1	Score	1000
Exons	29205..29295, 29447..29506, 29921..30020, 30170..30460		
GI Descrip.	'4006868/emb CAB16786.1  1.0e-36 (Z99707) putative protein [Arabidopsis thaliana]'		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
----------	-------	---------	----------------------

Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o4.ts	Method	TBLASTX:Soybean
Start	3124	End	3528
GI	none	Score	76
Exons	3124..3165, 3199..3279, 3209..3295, 3325..3399, 3379..3465, 3484..3528		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o3.tm	Method	TBLASTX:Maize
Start	3391	End	3897
GI	none	Score	261
Exons	3391..3663, 3395..3658, 3682..3756, 3683..3757, 3806..3847, 3810..3872, 3811..3873, 3836..3895, 3859..3897, 3859..3894		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o8.tm	Method	TBLASTX:Maize
Start	7004	End	10175
GI	none	Score	115
Exons	7004..7072, 7009..7068, 8101..8154, 8103..8156, 8103..8156, 8104..8157, 8235..8348, 8235..8348, 8236..8349, 8236..8349, 8494..8628, 8498..8629, 8499..8630, 8502..8630, 9688..9768, 9689..9769, 9693..9773, 10079..10174, 10083..10175		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o7.ts	Method	TBLASTX:Soybean
Start	14379	End	14792
GI	none	Score	95
Exons	14379..14411, 14518..14616, 14522..14614, 14702..14791, 14712..14792		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o2.tm	Method	TBLASTX:Maize
Start	14575	End	15214
GI	none	Score	58
Exons	14575..14616, 14576..14614, 14702..14794, 14703..14795, 14819..14986, 14843..14935, 15067..15210, 15070..15210, 15092..15214		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o2.ts	Method	TBLASTX:Soybean
Start	14894	End	15210
GI	none	Score	73
Exons	14894..14953, 15070..15210, 15076..15183, 15092..15193		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-

Start 34736  
Name OJ990619\_50.0211.C49.o6.tm  
Start 17030  
GI none  
Exons 17030..17251, 17038..17247

End 38045  
Method TBLASTX:Maize  
End 17251  
Score 233

Seq. No. 38224  
Gene No. 78630  
Start 34736  
Name OJ990619\_50.0211.C49.o3.ts  
Start 17084  
GI none  
Exons 17084..17491

Seq. ID OJ990619\_50.0211.C49  
Strand -  
End 38045  
Method TBLASTX:Soybean  
End 17491  
Score 208

Seq. No. 38224  
Gene No. 78630  
Start 34736  
Name OJ990619\_50.0211.C49.o1.tm  
Start 17279  
GI none  
Exons 17279..17527, 17279..17380, 17443..17493, 17561..17767,  
17564..17728, 17569..17757, 17740..18177, 17764..18009,  
17880..18164, 18469..18618, 18470..18619, 18627..18659

Seq. ID OJ990619\_50.0211.C49  
Strand -  
End 38045  
Method TBLASTX:Maize  
End 18659  
Score 258

Seq. No. 38224  
Gene No. 78630  
Start 34736  
Name OJ990619\_50.0211.C49.o5.ts  
Start 17842  
GI none  
Exons 17842..18177, 17886..18167

Seq. ID OJ990619\_50.0211.C49  
Strand -  
End 38045  
Method TBLASTX:Soybean  
End 18177  
Score 199

Seq. No. 38224  
Gene No. 78630  
Start 34736  
Name OJ990619\_50.0211.C49.o1.ts  
Start 26520  
GI none  
Exons 26520..26738, 26521..26721, 26733..26831, 26737..26841

Seq. ID OJ990619\_50.0211.C49  
Strand -  
End 38045  
Method TBLASTX:Soybean  
End 26841  
Score 84

Seq. No. 38224  
Gene No. 78630  
Start 34736  
Name OJ990619\_50.0211.C49.o5.tm  
Start 29239  
GI none  
Exons 29239..29298, 29239..29310, 29447..29512, 29448..29510,  
29921..29956, 29921..29965, 29967..30020, 29969..30028,  
30232..30306, 30233..30301, 30275..30547, 30345..30527,  
30400..30528, 30631..30687, 30633..30686, 30691..30723,  
30693..30722, 30724..30825, 30828..30890, 30837..30890,  
30886..30924, 30891..30923

Seq. ID OJ990619\_50.0211.C49  
Strand -  
End 38045  
Method TBLASTX:Maize  
End 30924  
Score 82

Seq. No. 38224  
Gene No. 78630  
Start 34736  
Name OJ990619\_50.0211.C49.o7.tm

Seq. ID OJ990619\_50.0211.C49  
Strand -  
End 38045  
Method TBLASTX:Maize

Start	31117	End	31369
GI	none	Score	71
Exons	31117..31233, 31118..31192, 31118..31234, 31343..31369		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o6.ts	Method	TBLASTX:Soybean
Start	31124	End	31394
GI	none	Score	56
Exons	31124..31234, 31335..31394		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o8.gs	Method	GENSCAN
Start	34736	End	37828
GI	none	Score	.45
Exons	34736..35169, 35238..35491, 36932..37088, 37547..37828		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o4.tm	Method	TBLASTX:Maize
Start	35180	End	37879
GI	none	Score	91
Exons	35180..35281, 35196..35234, 35294..35353, 35313..35354, 35352..35375, 35361..35420, 35462..35515, 37506..37598, 37507..37560, 37543..37566, 37572..37652, 37605..37634, 37616..37654, 37617..37652, 37643..37879, 37747..37854, 37755..37856		

Seq. No.	38224	Seq. ID	OJ990619_50.0211.C49
Gene No.	78630	Strand	-
Start	34736	End	38045
Name	OJ990619_50.0211.C49.o4.np	Method	AAT/NAP
Start	37408	End	38045
GI	6907106	Score	388
Exons	37408..37587, 37662..38045		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38225	Seq. ID	OJ990619_50.0211.C50
Gene No.	78631	Strand	+
Start	80	End	727
Name	OJ990619_50.0211.C50.o1.gs	Method	GENSCAN
Start	80	End	727
GI	none	Score	.95
Exons	80..486, 519..727		

Seq. No.	38225	Seq. ID	OJ990619_50.0211.C50
Gene No.	78632	Strand	-
Start	5400	End	6825
Name	OJ990619_50.0211.C50.o1.np	Method	AAT/NAP
Start	5400	End	6825
GI	5852084	Score	92
Exons	5400..5509, 6744..6825		

GI Descrip. (AL117264) zwh0007.1 [Oryza sativa]

Seq. No.	38226	Seq. ID	OJ990619_50.0211.C51
Gene No.	78633	Strand	+
Start	149	End	2317
Name	OJ990619_50.0211.C51.o1.gs	Method	GENSCAN
Start	149	End	2317
GI	none	Score	.41
Exons	149..300, 510..749, 1146..1394, 1406..1569, 1755..2043, 2099..2317		

Seq. No.	38226	Seq. ID	OJ990619_50.0211.C51
Gene No.	78634	Strand	-
Start	1766	End	6540
Name	OJ990619_50.0211.C51.o1.np	Method	AAT/NAP
Start	1766	End	4700
GI	6523547	Score	117
Exons	1766..1800, 2025..2128, 4101..4192, 4345..4700		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	38226	Seq. ID	OJ990619_50.0211.C51
Gene No.	78634	Strand	-
Start	1766	End	6540
Name	OJ990619_50.0211.C51.o2.gs	Method	GENSCAN
Start	4205	End	6540
GI	none	Score	.57
Exons	4205..4260, 4299..4669, 6536..6540		

Seq. No.	38226	Seq. ID	OJ990619_50.0211.C51
Gene No.	78635	Strand	-
Start	7857	End	8177
Name	OJ990619_50.0211.C51.o3.gs	Method	GENSCAN
Start	7857	End	8177
GI	none	Score	.97
Exons	7857..8177		

Seq. No.	38227	Seq. ID	OJ990619_50.0211.C52
Gene No.	78636	Strand	+
Start	1905	End	1971
Name	OJ990619_50.0211.C52.o1.gs	Method	GENSCAN
Start	1905	End	1971
GI	none	Score	.63
Exons	1905..1971		

Seq. No.	38228	Seq. ID	OJ990619_50.0211.C53
Gene No.	78637	Strand	-
Start	32	End	324
Name	OJ990619_50.0211.C53.o1.gs	Method	GENSCAN
Start	32	End	324
GI	none	Score	.75
Exons	32..216, 252..324		

Seq. No.	38229	Seq. ID	OJ990619_50.0211.C57
Gene No.	78638	Strand	+
Start	147	End	995
Name	OJ990619_50.0211.C57.o1.gs	Method	GENSCAN

Start 147  
GI none  
Exons 147..245, 751..995

End 995  
Score .75

Seq. No. 38230  
Gene No. 78639  
Start 1  
Name OJ990619\_52.0211.C1.o1.np  
Start 1  
GI 6907089  
Exons 1..523, 3906..3961  
GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. ID OJ990619\_52.0211.C1  
Strand +  
End 3961  
Method AAT/NAP  
End 3961  
Score 253

Seq. No. 38230  
Gene No. 78639  
Start 1  
Name OJ990619\_52.0211.C1.o1.gs  
Start 220  
GI none  
Exons 220..393, 603..727, 795..983, 1054..1112, 1180..1941, 2066..2211, 2309..2490, 3230..3322

Seq. ID OJ990619\_52.0211.C1  
Strand +  
End 3961  
Method GENSCAN  
End 3322  
Score .77

Seq. No. 38230  
Gene No. 78639  
Start 1  
Name OJ990619\_52.0211.C1.o2.np  
Start 327  
GI 6721561  
Exons 327..362, 761..983, 1054..1112, 1180..1942  
GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ990619\_52.0211.C1  
Strand +  
End 3961  
Method AAT/NAP  
End 1942  
Score 1079

Seq. No. 38230  
Gene No. 78640  
Start 8381  
Name OJ990619\_52.0211.C1.o1.gp  
Start 8381  
GI uC-osflcyp033a04b1  
Exons 8381..8762  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. ID OJ990619\_52.0211.C1  
Strand +  
End 8762  
Method AAT/GAP  
End 8762  
Score 655

Seq. No. 38230  
Gene No. 78641  
Start 3549  
Name OJ990619\_52.0211.C1.o3.np  
Start 3456  
GI 5902445  
Exons 3456..4700, 4740..5447, 9471..10598  
GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ990619\_52.0211.C1  
Strand -  
End 10598  
Method AAT/NAP  
End 10598  
Score 3005

Seq. No. 38230  
Gene No. 78641  
Start 3549

Seq. ID OJ990619\_52.0211.C1  
Strand -  
End 10598

Name	OJ990619_52.0211.C1.o2.gs	Method	GENSCAN
Start	3549	End	7586
GI	none	Score	.5
Exons	3549..4288, 4469..5392, 6534..7133, 7320..7535, 7553..7586		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78641	Strand	-
Start	3549	End	10598
Name	OJ990619_52.0211.C1.o3.gs	Method	GENSCAN
Start	7810	End	8140
GI	none	Score	.68
Exons	7810..7914, 8090..8140		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78641	Strand	-
Start	3549	End	10598
Name	OJ990619_52.0211.C1.o4.gs	Method	GENSCAN
Start	9426	End	10598
GI	none	Score	.51
Exons	9426..10598		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o3.tw	Method	TBLASTX:Wheat
Start	3465	End	4073
GI	none	Score	55
Exons	3465..3596, 3532..3591, 3621..4073, 3817..3924, 3970..4059		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o4.tw	Method	TBLASTX:Wheat
Start	4197	End	4580
GI	none	Score	205
Exons	4197..4580, 4198..4572		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o3.tm	Method	TBLASTX:Maize
Start	4275	End	4580
GI	none	Score	163
Exons	4275..4580, 4276..4563		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o5.tw	Method	TBLASTX:Wheat
Start	4950	End	5363
GI	none	Score	42
Exons	4950..5219, 5081..5110, 5082..5219, 5143..5223, 5254..5358, 5262..5363		

Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961



Name	OJ990619_52.0211.C1.o3.ts	Method	TBLASTX:Soybean
Start	4983	End	5366
GI	none	Score	81
Exons	4983..5234, 5268..5366		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o1.ts	Method	TBLASTX:Soybean
Start	9603	End	10028
GI	none	Score	70
Exons	9603..10028, 9844..9969		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o2.tw	Method	TBLASTX:Wheat
Start	9658	End	10082
GI	none	Score	236
Exons	9658..9972, 9660..10082, 9693..10079		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o2.tm	Method	TBLASTX:Maize
Start	9756	End	10139
GI	none	Score	121
Exons	9756..10139, 9757..9972, 10051..10104		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o1.tm	Method	TBLASTX:Maize
Start	10167	End	10523
GI	none	Score	221
Exons	10167..10523, 10168..10461, 10221..10469		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o1.tw	Method	TBLASTX:Wheat
Start	10197	End	10653
GI	none	Score	359
Exons	10197..10652, 10198..10653		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o2.ts	Method	TBLASTX:Soybean
Start	10248	End	10613
GI	none	Score	99
Exons	10248..10382, 10389..10613		
Seq. No.	38230	Seq. ID	OJ990619_52.0211.C1
Gene No.	78642	Strand	-
Start	10665	End	10961
Name	OJ990619_52.0211.C1.o4.np	Method	AAT/NAP

Start	10665	End	10961
GI	5902444	Score	138
Exons	10665..10961		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	38231	Seq. ID	OJ990619_52.0211.C2
Gene No.	78643	Strand	+
Start	1	End	3148
Name	OJ990619_52.0211.C2.o2.np	Method	AAT/NAP
Start	1	End	3148
GI	6721512	Score	84
Exons	1..22, 2046..2218, 3009..3148		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	38231	Seq. ID	OJ990619_52.0211.C2
Gene No.	78644	Strand	-
Start	1	End	6084
Name	OJ990619_52.0211.C2.o1.np	Method	AAT/NAP
Start	1	End	4391
GI	5902444	Score	919
Exons	1..1588, 1925..2149, 4318..4391		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	38231	Seq. ID	OJ990619_52.0211.C2
Gene No.	78644	Strand	-
Start	1	End	6084
Name	OJ990619_52.0211.C2.o1.gs	Method	GENSCAN
Start	19	End	6084
GI	none	Score	.64
Exons	19..392, 589..1095, 1120..2436, 2446..2971, 3016..3089, 3224..3364, 4170..4259, 5191..5343, 5382..5471, 5910..6084		

Seq. No.	38231	Seq. ID	OJ990619_52.0211.C2
Gene No.	78644	Strand	-
Start	1	End	6084
Name	OJ990619_52.0211.C2.o1.tw	Method	TBLASTX:Wheat
Start	84	End	521
GI	none	Score	101
Exons	84..320, 99..308, 202..309, 377..520, 420..521		

Seq. No.	38231	Seq. ID	OJ990619_52.0211.C2
Gene No.	78644	Strand	-
Start	1	End	6084
Name	OJ990619_52.0211.C2.o2.tw	Method	TBLASTX:Wheat
Start	1111	End	1509
GI	none	Score	57
Exons	1111..1509, 1241..1384, 1457..1495		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78645	Strand	+
Start	1439	End	1601
Name	OJ990619_52.0211.C4.o1.gs	Method	GENSCAN
Start	1439	End	1549
GI	none	Score	.88
Exons	1439..1549		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
----------	-------	---------	---------------------

Gene No.	78645	Strand	+
Start	1439	End	1601
Name	OJ990619_52.0211.C4.o1.np	Method	AAT/NAP
Start	1439	End	1601
GI	5852172	Score	55
Exons	1439..1470, 1499..1601		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78646	Strand	+
Start	2959	End	3342
Name	OJ990619_52.0211.C4.o3.gs	Method	GENSCAN
Start	2959	End	3342
GI	none	Score	.64
Exons	2959..3342		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78647	Strand	-
Start	1	End	6730
Name	OJ990619_52.0211.C4.o2.np	Method	AAT/NAP
Start	1	End	6721
GI	6573149	Score	329
Exons	1..27, 5634..5911, 6496..6721		
GI Descrip.	(AF201895) growth-regulating factor 1 [Oryza sativa]		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78647	Strand	-
Start	1	End	6730
Name	OJ990619_52.0211.C4.o2.gs	Method	GENSCAN
Start	2152	End	2484
GI	none	Score	.78
Exons	2152..2484		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78647	Strand	-
Start	1	End	6730
Name	OJ990619_52.0211.C4.o4.gs	Method	GENSCAN
Start	3669	End	6730
GI	none	Score	.92
Exons	3669..4107, 5505..5916, 6520..6730		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78648	Strand	-
Start	9353	End	9436
Name	OJ990619_52.0211.C4.o1.tm	Method	TBLASTX:Maize
Start	3712	End	5623
GI	none	Score	63
Exons	3712..3789, 3738..3872, 3763..3873, 3879..4034, 3882..3950, 3883..4035, 4011..4112, 4032..4109, 5503..5589, 5504..5572, 5603..5623		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78648	Strand	-
Start	9353	End	9436
Name	OJ990619_52.0211.C4.o1.tc	Method	TBLASTX:Cress
Start	5750	End	5887
GI	none	Score	159

Exons 5750..5887, 5751..5885, 5752..5886

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78648	Strand	-
Start	9353	End	9436
Name	OJ990619_52.0211.C4.o2.tm	Method	TBLASTX:Maize
Start	5750	End	5917
GI	none	Score	238
Exons	5750..5917, 5754..5897		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78648	Strand	-
Start	9353	End	9436
Name	OJ990619_52.0211.C4.o1.ts	Method	TBLASTX:Soybean
Start	5753	End	6655
GI	none	Score	187
Exons	5753..5896, 5754..5900, 6563..6655		

Seq. No.	38232	Seq. ID	OJ990619_52.0211.C4
Gene No.	78648	Strand	-
Start	9353	End	9436
Name	OJ990619_52.0211.C4.o3.np	Method	AAT/NAP
Start	9353	End	9436
GI	5852084	Score	72
Exons	9353..9436		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	38233	Seq. ID	OJ990619_52.0211.C5
Gene No.	78649	Strand	+
Start	1976	End	2080
Name	OJ990619_52.0211.C5.o1.gp	Method	AAT/GAP
Start	1976	End	2080
GI	uC-osflcyp082b07a1	Score	138
Exons	1976..2080		
GI Descrip.	'218221/dbj D10675 RICSINE1R6 3.0e-30 Oryza sativa p-SINE1-r6 gene, repeat sequence'		

Seq. No.	38234	Seq. ID	OJ990619_52.0211.C6
Gene No.	78650	Strand	+
Start	481	End	1113
Name	OJ990619_52.0211.C6.o1.np	Method	AAT/NAP
Start	481	End	1113
GI	2498930	Score	722
Exons	481..544, 712..1113		

GI Descrip. DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]

Seq. No.	38234	Seq. ID	OJ990619_52.0211.C6
Gene No.	78650	Strand	+
Start	481	End	1113
Name	OJ990619_52.0211.C6.o1.gs	Method	GENSCAN
Start	485	End	1107
GI	none	Score	.55
Exons	485..544, 576..610, 757..1107		

Seq. No.	38235	Seq. ID	OJ990619_52.0211.C7
Gene No.	78651	Strand	+

Start	113	End	465
Name	OJ990619_52.0211.C7.o1.np	Method	AAT/NAP
Start	113	End	465
GI	6714422	Score	177
Exons	113..294, 444..465		
GI Descrip.	(AC012328) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38235	Seq. ID	OJ990619_52.0211.C7
Gene No.	78651	Strand	+
Start	113	End	465
Name	OJ990619_52.0211.C7.o1.ts	Method	TBLASTX:Soybean
Start	151	End	295
GI	none	Score	222
Exons	151..294, 152..295		

Seq. No.	38236	Seq. ID	OJ990619_52.0211.C8
Gene No.	78652	Strand	-
Start	1	End	687
Name	OJ990619_52.0211.C8.o1.np	Method	AAT/NAP
Start	1	End	687
GI	6721512	Score	85
Exons	1..37, 285..396, 668..687		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	38236	Seq. ID	OJ990619_52.0211.C8
Gene No.	78652	Strand	-
Start	1	End	687
Name	OJ990619_52.0211.C8.o1.gs	Method	GENSCAN
Start	55	End	591
GI	none	Score	.64
Exons	55..141, 285..372, 397..591		

Seq. No.	38237	Seq. ID	OJ990619_52.0211.C9
Gene No.	78653	Strand	+
Start	441	End	1517
Name	OJ990619_52.0211.C9.o1.gs	Method	GENSCAN
Start	441	End	1517
GI	none	Score	.7
Exons	441..662, 728..889, 1407..1517		

Seq. No.	38237	Seq. ID	OJ990619_52.0211.C9
Gene No.	78654	Strand	-
Start	422	End	990
Name	OJ990619_52.0211.C9.o1.gp	Method	AAT/GAP
Start	422	End	990
GI	none	Score	
Exons	422..698, 871..990		

Seq. No.	38238	Seq. ID	OJ990619_52.0211.C10
Gene No.	78655	Strand	-
Start	1	End	419
Name	OJ990619_52.0211.C10.o1.np	Method	AAT/NAP
Start	1	End	419
GI	3549626	Score	253
Exons	1..419		
GI Descrip.	(AJ009696) wall-associated kinase 1 [Arabidopsis thaliana]		

Seq. No.	38238	Seq. ID	OJ990619_52.0211.C10
Gene No.	78655	Strand	-
Start	1	End	419
Name	OJ990619_52.0211.C10.o1.tm	Method	TBLASTX:Maize
Start	2	End	367
GI	none	Score	73
Exons	2..49, 50..133, 60..134, 135..185, 199..249, 249..359, 251..367, 266..367		

Seq. No.	38238	Seq. ID	OJ990619_52.0211.C10
Gene No.	78655	Strand	-
Start	1	End	419
Name	OJ990619_52.0211.C10.o1.tc	Method	TBLASTX:Cress
Start	20	End	361
GI	none	Score	138
Exons	20..49, 50..133, 135..182, 202..249, 249..356, 251..361		

Seq. No.	38238	Seq. ID	OJ990619_52.0211.C10
Gene No.	78655	Strand	-
Start	1	End	419
Name	OJ990619_52.0211.C10.o1.ts	Method	TBLASTX:Soybean
Start	20	End	353
GI	none	Score	87
Exons	20..49, 47..133, 193..249, 218..352, 249..353, 251..352		

Seq. No.	38238	Seq. ID	OJ990619_52.0211.C10
Gene No.	78655	Strand	-
Start	1	End	419
Name	OJ990619_52.0211.C10.o1.tw	Method	TBLASTX:Wheat
Start	202	End	374
GI	none	Score	36
Exons	202..249, 218..247, 249..374, 251..358		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78656	Strand	+
Start	21	End	2961
Name	OJ990619_52.0211.C11.o1.gs	Method	GENSCAN
Start	21	End	2961
GI	none	Score	.51
Exons	21..73, 1395..1452, 1488..1730, 1757..2125, 2704..2961		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78656	Strand	+
Start	21	End	2961
Name	OJ990619_52.0211.C11.o1.gp	Method	AAT/GAP
Start	1405	End	1615
GI	none	Score	334
Exons	1405..1615		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78657	Strand	+
Start	3212	End	3603
Name	OJ990619_52.0211.C11.o2.gp	Method	AAT/GAP
Start	3212	End	3603
GI	none	Score	746
Exons	3212..3603		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78658	Strand	+
Start	10444	End	13640
Name	OJ990619_52.0211.C11.o3.np	Method	AAT/NAP
Start	10026	End	12203
GI	3668118	Score	1558
Exons	10026..10124, 10674..10937, 11026..11295, 11383..11973, 12063..12203		

GI Descrip. (AJ224078) hypothetical protein [Brassica napus]

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78658	Strand	+
Start	10444	End	13640
Name	OJ990619_52.0211.C11.o3.gs	Method	GENSCAN
Start	10444	End	13640
GI	none	Score	.89
Exons	10444..10581, 10671..10937, 11026..11295, 11383..11973, 13464..13640		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78658	Strand	+
Start	10444	End	13640
Name	OJ990619_52.0211.C11.o3.gp	Method	AAT/GAP
Start	10861	End	11309
GI	LIB3434-048-P1-K1-F7	Score	634
Exons	10861..10937, 11026..11309		
GI Descrip.	'3402817/emb CAA07704  4.0e-22 (AJ007829) lacZ'' [Cloning vector pGreen]'		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78658	Strand	+
Start	10444	End	13640
Name	OJ990619_52.0211.C11.o4.gp	Method	AAT/GAP
Start	12650	End	12975
GI	3766724	Score	618
Exons	12650..12975		
GI Descrip.	3402817/emb CAA07704  4.0e-22 (AJ007829) lacZ' [Cloning vector pGreen]		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78659	Strand	+
Start	15351	End	19494
Name	OJ990619_52.0211.C11.o4.np	Method	AAT/NAP
Start	15351	End	18731
GI	6223653	Score	306
Exons	15351..15460, 16635..16736, 17180..17256, 17369..17428, 17561..17640, 18383..18455, 18555..18731		
GI Descrip.	(AC011698) transfactor-like [Arabidopsis thaliana]		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78659	Strand	+
Start	15351	End	19494
Name	OJ990619_52.0211.C11.o5.gs	Method	GENSCAN
Start	16583	End	19494
GI	none	Score	.81
Exons	16583..16736, 17180..17256, 17369..17426, 17561..17636, 18386..18455, 18555..18970, 19401..19494		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78660	Strand	+
Start	30289	End	33785
Name	OJ990619_52.0211.C11.o8.gs	Method	GENSCAN
Start	30289	End	33011
GI	none	Score	.68
Exons	30289..30296, 30363..30441, 30859..30997, 31249..31351, 31812..31920, 32314..32379, 32407..32534, 32963..33011		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78660	Strand	+
Start	30289	End	33785
Name	OJ990619_52.0211.C11.o5.gp	Method	AAT/GAP
Start	30385	End	32401
GI	36563_1.R1084	Score	1311
Exons	30385..30441, 30553..30621, 30692..30781, 30859..30997, 31249..31351, 31434..31486, 31574..31640, 31812..31920, 32314..32401		
GI Descrip.	'4455158/emb CAA16700.1  1.0e-120 (AL021687) kinase-like protein [Arabidopsis thaliana]'		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78660	Strand	+
Start	30289	End	33785
Name	OJ990619_52.0211.C11.o6.gp	Method	AAT/GAP
Start	32454	End	33785
GI	none	Score	1800
Exons	32454..32534, 32619..32685, 32765..32881, 32963..33073, 33160..33785		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78661	Strand	+
Start	39758	End	42488
Name	OJ990619_52.0211.C11.o7.np	Method	AAT/NAP
Start	39758	End	42488
GI	6721512	Score	62
Exons	39758..39790, 41373..41460, 42471..42488		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78661	Strand	+
Start	39758	End	42488
Name	OJ990619_52.0211.C11.o8.np	Method	AAT/NAP
Start	42294	End	42488
GI	6721558	Score	127
Exons	42294..42488		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815083 dbj BAA90369.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78662	Strand	-
Start	3494	End	9313
Name	OJ990619_52.0211.C11.o2.np	Method	AAT/NAP
Start	3494	End	7444
GI	6714422	Score	552



Exons 3494..4815, 5462..6103, 6327..6501, 7263..7444  
GI Descrip. (AC012328) hypothetical protein [Arabidopsis thaliana]

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78662	Strand	-
Start	3494	End	9313
Name	OJ990619_52.0211.C11.o2.gs	Method	GENSCAN
Start	4170	End	9313
GI	none	Score	.58
Exons	4170..4288, 4650..4784, 5476..6162, 6281..6501, 7263..7355, 7740..7858, 8014..8220, 8579..8609, 9228..9313		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78663	Strand	-
Start	15328	End	16090
Name	OJ990619_52.0211.C11.o4.gs	Method	GENSCAN
Start	15328	End	16090
GI	none	Score	.8
Exons	15328..15676, 15801..16090		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78664	Strand	-
Start	19922	End	21265
Name	OJ990619_52.0211.C11.o6.gs	Method	GENSCAN
Start	19922	End	21265
GI	none	Score	.61
Exons	19922..20560, 20651..20779, 20906..21265		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78664	Strand	-
Start	19922	End	21265
Name	OJ990619_52.0211.C11.o5.np	Method	AAT/NAP
Start	19925	End	21265
GI	3218544	Score	1136
Exons	19925..19981, 20072..20560, 20651..20779, 20906..21012, 21067..21265		
GI Descrip.	(AB004813) alternative oxidase [Oryza sativa] gi 3218546 dbj BAA28773  (AB004864) alternative oxidase [Oryza sativa] gi 6467126 dbj BAA86963.1  (AB007452) alternative oxidase [Oryza sativa]		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78665	Strand	-
Start	34434	End	38254
Name	OJ990619_52.0211.C11.o9.gs	Method	GENSCAN
Start	34434	End	38254
GI	none	Score	.72
Exons	34434..34916, 34989..35130, 35223..35698, 36699..36773, 38156..38254		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78665	Strand	-
Start	34434	End	38254
Name	OJ990619_52.0211.C11.o6.np	Method	AAT/NAP
Start	34548	End	35320
GI	4803940	Score	208
Exons	34548..34672, 34805..34916, 34998..35130, 35223..35320		

GI Descrip. (AC006264) hypothetical protein [Arabidopsis thaliana]

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o3.tm	Method	TBLASTX:Maize
Start	3409	End	4233
GI	none	Score	39
Exons	3409..3438, 3411..3440, 3448..3597, 3461..3598, 3461..3616, 3471..3617, 3611..3691, 3653..3748, 3686..3778, 3689..3778, 3696..3782, 3699..3782, 3774..3827, 3784..3873, 3876..3929, 3877..3930, 3877..3930, 3917..4042, 3928..4041, 4042..4224, 4042..4233, 4043..4225		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o6.ts	Method	TBLASTX:Soybean
Start	6393	End	7406
GI	none	Score	80
Exons	6393..6500, 6393..6500, 6394..6501, 7262..7405, 7263..7406		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o1.tm	Method	TBLASTX:Maize
Start	10411	End	12289
GI	none	Score	58
Exons	10411..10479, 10438..10494, 10440..10511, 10440..10493, 10485..10592, 10488..10580, 10492..10599, 10492..10581, 10670..10762, 10671..10769, 10725..10937, 10757..10936, 11024..11293, 11025..11294, 11026..11316, 11376..11966, 11383..11973, 11383..11973, 12060..12287, 12060..12245, 12062..12289		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o7.ts	Method	TBLASTX:Soybean
Start	11143	End	11313
GI	none	Score	204
Exons	11143..11313, 11149..11313		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o3.ts	Method	TBLASTX:Soybean
Start	11418	End	12122
GI	none	Score	188
Exons	11418..11597, 11419..11616, 11668..11967, 11677..11910, 11712..11957, 11818..11868, 11875..11970, 12063..12116, 12096..12122		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o4.tc	Method	TBLASTX:Cress

Start	11844	End	12206
GI	none	Score	80
Exons	11844..11969, 11844..11960, 11845..11973, 11848..11973, 12060..12206, 12062..12130		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o9.tm	Method	TBLASTX:Maize
Start	18542	End	18804
GI	none	Score	329
Exons	18542..18802, 18553..18804, 18573..18803		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o1.tc	Method	TBLASTX:Cress
Start	19922	End	20974
GI	none	Score	423
Exons	19922..19981, 20070..20567, 20072..20563, 20651..20782, 20652..20786, 20906..20974, 20907..20972		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o8.tm	Method	TBLASTX:Maize
Start	19922	End	20279
GI	none	Score	197
Exons	19922..19981, 20045..20278, 20070..20279		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o2.ts	Method	TBLASTX:Soybean
Start	19922	End	20974
GI	none	Score	431
Exons	19922..19981, 20070..20567, 20072..20563, 20651..20779, 20652..20786, 20907..20972, 20909..20974		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o3.tw	Method	TBLASTX:Wheat
Start	19955	End	20380
GI	none	Score	48
Exons	19955..19981, 20070..20204, 20072..20203, 20216..20380, 20220..20375		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o6.tm	Method	TBLASTX:Maize
Start	20280	End	20534
GI	none	Score	278
Exons	20280..20534, 20282..20533		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
----------	-------	---------	----------------------

Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o11.tm	Method	TBLASTX:Maize
Start	20537	End	20956
GI	none	Score	42
Exons	20537..20566, 20651..20782, 20652..20786, 20906..20956, 20907..20951		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o7.tm	Method	TBLASTX:Maize
Start	23125	End	23533
GI	none	Score	286
Exons	23125..23532, 23159..23533		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o5.ts	Method	TBLASTX:Soybean
Start	23152	End	23506
GI	none	Score	283
Exons	23152..23505, 23153..23506		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o1.ts	Method	TBLASTX:Soybean
Start	23506	End	24534
GI	none	Score	923
Exons	23506..24534, 23507..24445		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o2.tm	Method	TBLASTX:Maize
Start	23683	End	24460
GI	none	Score	602
Exons	23683..24426, 23684..24412, 24278..24460, 24310..24456		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o2.tc	Method	TBLASTX:Cress
Start	23767	End	24021
GI	none	Score	210
Exons	23767..24021, 23768..24019		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o1.tw	Method	TBLASTX:Wheat
Start	23984	End	24457
GI	none	Score	474
Exons	23984..24457, 23986..24456		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
----------	-------	---------	----------------------

Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o4.tm	Method	TBLASTX:Maize
Start	28005	End	33397
GI	none	Score	65
Exons	28005..28115, 29465..29563, 29468..29545, 29469..29582, 29469..29570, 29566..29670, 29567..29704, 29569..29715, 29571..29672, 29582..29698, 29705..29731, 29714..29731, 29716..29733, 30214..30297, 30360..30443, 30361..30450, 30552..30620, 30553..30621, 30559..30621, 30683..30781, 30686..30781, 30688..30789, 30847..30996, 30858..30995, 30859..31023, 31241..31360, 31248..31352, 31250..31363, 31432..31485, 31434..31484, 31434..31490, 31435..31485, 31566..31643, 31573..31644, 31809..31916, 31810..31923, 31810..31923, 31812..31937, 32310..32378, 32311..32379, 32311..32379, 32460..32534, 32465..32536, 32465..32533, 32467..32535, 32615..32683, 32617..32703, 32619..32684, 32670..32879, 32763..32882, 32764..32883, 32764..32898, 32961..33074, 32962..33075, 32962..33084, 32964..33077, 33156..33254, 33158..33397, 33159..33392		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o4.ts	Method	TBLASTX:Soybean
Start	29513	End	31647
GI	none	Score	81
Exons	29513..29641, 30360..30449, 30360..30449, 30361..30450, 30373..30450, 30513..30626, 30553..30621, 30686..30781, 30691..30789, 30853..30996, 30858..30995, 30865..30996, 31247..31336, 31248..31376, 31426..31485, 31428..31463, 31570..31647, 31572..31646		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o3.tc	Method	TBLASTX:Cress
Start	30340	End	32537
GI	none	Score	101
Exons	30340..30450, 30360..30443, 30552..30617, 30553..30621, 30686..30781, 30864..31025, 30865..31023, 31247..31360, 31248..31352, 31249..31353, 31434..31466, 31435..31485, 31566..31646, 31573..31635, 31810..31902, 32460..32537		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o2.tw	Method	TBLASTX:Wheat
Start	30573	End	31650
GI	none	Score	66
Exons	30573..30617, 30574..30621, 30686..30781, 30691..30789, 30718..30783, 30853..30996, 30858..30995, 30862..30996, 30863..30997, 31241..31360, 31248..31352, 31274..31357, 31434..31490, 31435..31485, 31566..31631, 31573..31650		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-

Start	39963	End	42105
Name	OJ990619_52.0211.C11.o10.tm	Method	TBLASTX:Maize
Start	34256	End	34698
GI	none	Score	90
Exons	34256..34354, 34267..34347, 34269..34355, 34479..34559, 34525..34551, 34558..34671, 34563..34670, 34651..34698, 34662..34697		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o5.tm	Method	TBLASTX:Maize
Start	34870	End	35615
GI	none	Score	35
Exons	34870..34908, 34885..34911, 34981..35133, 34989..35156, 35217..35312, 35225..35350, 35225..35326, 35390..35437, 35391..35438, 35522..35572, 35522..35614, 35550..35615		

Seq. No.	38239	Seq. ID	OJ990619_52.0211.C11
Gene No.	78666	Strand	-
Start	39963	End	42105
Name	OJ990619_52.0211.C11.o10.gs	Method	GENSCAN
Start	39963	End	42105
GI	none	Score	.53
Exons	39963..39990, 40472..40627, 41023..41401, 41916..42105		

Seq. No.	38240	Seq. ID	OJ990619_52.0211.C13
Gene No.	78667	Strand	+
Start	976	End	3575
Name	OJ990619_52.0211.C13.o1.gs	Method	GENSCAN
Start	976	End	3575
GI	none	Score	.62
Exons	976..1075, 1373..1535, 1655..1854, 2035..2146, 2264..2358, 2360..2472, 2848..2938, 3009..3124, 3282..3354, 3476..3575		

Seq. No.	38241	Seq. ID	OJ990619_52.0211.C14
Gene No.	78668	Strand	+
Start	878	End	1081
Name	OJ990619_52.0211.C14.o1.gs	Method	GENSCAN
Start	878	End	1081
GI	none	Score	.86
Exons	878..1081		

Seq. No.	38241	Seq. ID	OJ990619_52.0211.C14
Gene No.	78669	Strand	-
Start	1689	End	3571
Name	OJ990619_52.0211.C14.o2.gs	Method	GENSCAN
Start	1689	End	3571
GI	none	Score	.75
Exons	1689..1825, 1902..2008, 3277..3350, 3569..3571		

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78670	Strand	+
Start	1906	End	5153
Name	OJ990619_52.0211.C15.o1.gs	Method	GENSCAN
Start	1906	End	5047
GI	none	Score	.87

Exons 1906..2299, 3460..3629, 3790..3894, 4387..4590, 4634..4706, 4935..5047

Seq. No. 38242 Seq. ID OJ990619\_52.0211.C15  
Gene No. 78670 Strand +  
Start 1906 End 5153  
Name OJ990619\_52.0211.C15.o2.np Method AAT/NAP  
Start 1950 End 5035  
GI 4106538 Score 930  
Exons 1950..2299, 3457..3629, 3790..3894, 4387..4590, 4732..4834, 4935..5035  
GI Descrip. (AF104220) gamma-tocopherol methyltransferase [Arabidopsis thaliana]

Seq. No. 38242 Seq. ID OJ990619\_52.0211.C15  
Gene No. 78670 Strand +  
Start 1906 End 5153  
Name OJ990619\_52.0211.C15.o1.gp Method AAT/GAP  
Start 4441 End 5153  
GI LIB3432-010-P1-K1-D9 Score 804  
Exons 4441..4590, 4732..4834, 4935..5153  
GI Descrip. '4106538 4.0e-37 (AF104220) gamma-tocopherol methyltransferase [Arabidopsis thaliana]'

Seq. No. 38242 Seq. ID OJ990619\_52.0211.C15  
Gene No. 78671 Strand -  
Start 155 End 699  
Name OJ990619\_52.0211.C15.o1.np Method AAT/NAP  
Start 155 End 699  
GI 6539585 Score 164  
Exons 155..230, 531..699  
GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 38242 Seq. ID OJ990619\_52.0211.C15  
Gene No. 78672 Strand -  
Start 5911 End 6864  
Name OJ990619\_52.0211.C15.o2.tm Method TBLASTX:Maize  
Start 2122 End 2318  
GI none Score 288  
Exons 2122..2313, 2125..2184, 2166..2318

Seq. No. 38242 Seq. ID OJ990619\_52.0211.C15  
Gene No. 78672 Strand -  
Start 5911 End 6864  
Name OJ990619\_52.0211.C15.o1.tc Method TBLASTX:Cress  
Start 2125 End 5034  
GI none Score 148  
Exons 2125..2241, 2212..2295, 3455..3610, 3459..3629, 3775..3888, 3788..3886, 3792..3914, 4384..4590, 4386..4586, 4728..4838, 4729..4839, 4933..5034, 4934..5032

Seq. No. 38242 Seq. ID OJ990619\_52.0211.C15  
Gene No. 78672 Strand -  
Start 5911 End 6864  
Name OJ990619\_52.0211.C15.o1.ts Method TBLASTX:Soybean  
Start 2125 End 5044  
GI none Score 225

Exons 2125..2295, 2125..2184, 2169..2288, 3456..3632, 3458..3631,  
3778..3888, 3789..3887, 4384..4590, 4386..4454, 4445..4591,  
4667..4714, 4729..4836, 4731..4835, 4747..4836, 4933..5040,  
4934..5035, 4943..5044

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o1.tm	Method	TBLASTX:Maize
Start	3476	End	5032
GI	none	Score	240
Exons	3476..3631, 3477..3638, 3521..3646, 3778..3894, 3789..3887, 4384..4590, 4384..4590, 4386..4592, 4386..4592, 4727..4828, 4729..4836, 4729..4824, 4731..4835, 4933..4983, 4934..4993, 4938..4997, 4987..5031, 4988..5032		

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o2.gs	Method	GENSCAN
Start	5911	End	6736
GI	none	Score	79
Exons	5911..6273, 6614..6736		

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o2.gp	Method	AAT/GAP
Start	6529	End	6864
GI	72410_1.R1084	Score	310
Exons	6529..6736, 6812..6864		
GI Descrip.	'4539351/emb CAB37499.1  5.0e-20 (AL035539) putative protein [Arabidopsis thaliana]'		

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o3.tm	Method	TBLASTX:Maize
Start	6582	End	6850
GI	none	Score	175
Exons	6582..6737, 6584..6739, 6592..6756, 6593..6739, 6812..6850, 6813..6845, 6817..6846		

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o2.tc	Method	TBLASTX:Cress
Start	6585	End	6852
GI	none	Score	166
Exons	6585..6737, 6589..6738, 6590..6739, 6593..6739, 6805..6852		

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o1.tw	Method	TBLASTX:Wheat
Start	6593	End	6850
GI	none	Score	187



Exons 6593..6739, 6597..6737, 6812..6850, 6813..6845

Seq. No.	38242	Seq. ID	OJ990619_52.0211.C15
Gene No.	78672	Strand	-
Start	5911	End	6864
Name	OJ990619_52.0211.C15.o3.np	Method	AAT/NAP
Start	6596	End	6864
GI	3717987	Score	196
Exons	6596..6736, 6812..6864		
GI Descrip.	(AJ005899) G subunit of Vacuolar-type H <sup>+</sup> -ATPase [Nicotiana tabacum]		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78673	Strand	+
Start	1	End	3550
Name	OJ990619_52.0211.C16.o2.np	Method	AAT/NAP
Start	1	End	3550
GI	6006372	Score	86
Exons	1..111, 2793..2868, 3413..3550		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78674	Strand	+
Start	4299	End	4558
Name	OJ990619_52.0211.C16.o2.gs	Method	GENSCAN
Start	4299	End	4558
GI	none	Score	.92
Exons	4299..4345, 4429..4558		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78675	Strand	-
Start	1	End	1865
Name	OJ990619_52.0211.C16.o1.gp	Method	AAT/GAP
Start	1	End	1865
GI	72410_1.R1084	Score	463
Exons	1..60, 759..873, 1783..1865		
GI Descrip.	'4539351/emb CAB37499.1  5.0e-20 (AL035539) putative protein [Arabidopsis thaliana]'		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o1.np	Method	AAT/NAP
Start	2083	End	5435
GI	6006372	Score	80
Exons	2083..2211, 2521..2609, 2827..2869, 4398..4427, 5376..5435		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o5.tm	Method	TBLASTX:Maize
Start	2640	End	2899
GI	none	Score	163
Exons	2640..2810, 2640..2813, 2840..2899, 2840..2881		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
----------	-------	---------	----------------------

Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o3.np	Method	AAT/NAP
Start	4821	End	9948
GI	4585985	Score	1606
Exons	4821..6160, 6459..8041, 8140..8383, 8859..9203, 9889..9948		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o3.gs	Method	GENSCAN
Start	4848	End	10702
GI	none	Score	.63
Exons	4848..6301, 6430..6840, 7051..7462, 7499..8041, 8289..8383, 8501..9020, 9434..9530, 9800..9977, 10090..10702		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o2.tm	Method	TBLASTX:Maize
Start	5031	End	5387
GI	none	Score	137
Exons	5031..5207, 5031..5387, 5032..5340		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o2.tw	Method	TBLASTX:Wheat
Start	5226	End	5603
GI	none	Score	91
Exons	5226..5450, 5227..5325, 5454..5516, 5499..5603		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o3.tm	Method	TBLASTX:Maize
Start	5556	End	5748
GI	none	Score	160
Exons	5556..5747, 5556..5747, 5623..5748		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o1.tm	Method	TBLASTX:Maize
Start	6421	End	6812
GI	none	Score	176
Exons	6421..6699, 6428..6811, 6435..6812		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o4.tm	Method	TBLASTX:Maize
Start	7661	End	8047
GI	none	Score	70
Exons	7661..7834, 7680..7838, 7835..8047, 7836..7901		

Seq. No.	38243	Seq. ID	OJ990619_52.0211.C16
Gene No.	78676	Strand	-
Start	2083	End	10702
Name	OJ990619_52.0211.C16.o1.tw	Method	TBLASTX:Wheat
Start	7697	End	8223
GI	none	Score	201
Exons	7697..8044, 7698..8042, 8140..8175, 8141..8176, 8188..8223		

Seq. No.	38244	Seq. ID	OJ990619_52.0211.C18
Gene No.	78677	Strand	+
Start	51	End	243
Name	OJ990619_52.0211.C18.o1.gs	Method	GENSCAN
Start	51	End	243
GI	none	Score	.55
Exons	51..243		

Seq. No.	38244	Seq. ID	OJ990619_52.0211.C18
Gene No.	78678	Strand	-
Start	1	End	486
Name	OJ990619_52.0211.C18.o1.np	Method	AAT/NAP
Start	1	End	486
GI	6721512	Score	89

Exons 1..72, 320..486  
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	38245	Seq. ID	OJ990909_12.0218.C1
Gene No.	78679	Strand	+
Start	365	End	950
Name	OJ990909_12.0218.C1.o1.np	Method	AAT/NAP
Start	365	End	950
GI	3822551	Score	48
Exons	365..589, 930..950		
GI Descrip.	(AF097215) immunodominant envelope antigen FlL [orf virus (strain NZ2)]		

Seq. No.	38245	Seq. ID	OJ990909_12.0218.C1
Gene No.	78680	Strand	-
Start	208	End	950
Name	OJ990909_12.0218.C1.o1.gs	Method	GENSCAN
Start	208	End	839
GI	none	Score	.73
Exons	208..839		

Seq. No.	38245	Seq. ID	OJ990909_12.0218.C1
Gene No.	78680	Strand	-
Start	208	End	950
Name	OJ990909_12.0218.C1.o2.np	Method	AAT/NAP
Start	666	End	950
GI	4680204	Score	77
Exons	666..950		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	38246	Seq. ID	OJ990909_12.0218.C2
Gene No.	78681	Strand	-
Start	88	End	852
Name	OJ990909_12.0218.C2.o1.gs	Method	GENSCAN
Start	88	End	852

GI	none	Score	.63
Exons	88..634, 723..852		
Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.ol.gp	Method	AAT/GAP
Start	172	End	1617
GI	5002953	Score	1255
Exons	172..338, 818..1227, 1486..1617		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.ol.gs	Method	GENSCAN
Start	295	End	2043
GI	none	Score	.95
Exons	295..2043		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.ol.tw	Method	TBLASTX:Wheat
Start	382	End	1602
GI	none	Score	48
Exons	382..474, 407..475, 475..579, 503..580, 604..645, 604..642, 649..696, 685..876, 701..841, 880..1041, 977..1024, 1060..1602, 1112..1558		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.ol.np	Method	AAT/NAP
Start	770	End	2187
GI	6742729	Score	1016
Exons	770..1925, 1974..2187		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.ol.tc	Method	TBLASTX:Cress
Start	889	End	1315
GI	none	Score	56
Exons	889..1041, 977..1024, 1060..1311, 1112..1315		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.ol.tm	Method	TBLASTX:Maize
Start	1213	End	1698
GI	none	Score	89
Exons	1213..1698, 1220..1369, 1505..1681		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
----------	-------	---------	---------------------

Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.o2.tw	Method	TBLASTX:Wheat
Start	1606	End	1956
GI	none	Score	66
Exons	1606..1689, 1607..1690, 1726..1956, 1727..1927		

Seq. No.	38247	Seq. ID	OJ990909_12.0218.C3
Gene No.	78682	Strand	-
Start	295	End	2187
Name	OJ990909_12.0218.C3.o2.tm	Method	TBLASTX:Maize
Start	1741	End	2183
GI	none	Score	84
Exons	1741..1797, 1804..1953, 1808..1921, 2127..2183		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78683	Strand	+
Start	1	End	6450
Name	OJ990909_12.0218.C4.o1.np	Method	AAT/NAP
Start	1	End	6450
GI	6705984	Score	4232
Exons	1..2515, 5442..6450		

GI Descrip. (AB033235) gag-pol polyprotein [Oryza sativa]

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78683	Strand	+
Start	1	End	6450
Name	OJ990909_12.0218.C4.o1.gp	Method	AAT/GAP
Start	3306	End	3954
GI	101153_1.R1084	Score	494

Exons 3306..3636, 3928..3954  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78683	Strand	+
Start	1	End	6450
Name	OJ990909_12.0218.C4.o2.gp	Method	AAT/GAP
Start	4559	End	5440
GI	4107138	Score	1216

Exons 4559..5440  
 GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78683	Strand	+
Start	1	End	6450
Name	OJ990909_12.0218.C4.o3.gp	Method	AAT/GAP
Start	5162	End	5435
GI	61605_1.R1084	Score	465

Exons 5162..5435  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648

Name	OJ990909_12.0218.C4.o6.tw	Method	TBLASTX:Wheat
Start	356	End	670
GI	none	Score	130
Exons	356..460, 356..448, 461..622, 462..506, 463..630, 464..670		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o3.ts	Method	TBLASTX:Soybean
Start	419	End	655
GI	none	Score	258
Exons	419..655, 425..598		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o5.tm	Method	TBLASTX:Maize
Start	419	End	655
GI	none	Score	266
Exons	419..655, 425..622		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o7.tm	Method	TBLASTX:Maize
Start	824	End	1024
GI	none	Score	52
Exons	824..877, 880..1017, 881..1024		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o4.tw	Method	TBLASTX:Wheat
Start	980	End	1449
GI	none	Score	339
Exons	980..1447, 1084..1449		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o4.tm	Method	TBLASTX:Maize
Start	1048	End	1514
GI	none	Score	322
Exons	1048..1434, 1049..1441, 1461..1514		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o2.ts	Method	TBLASTX:Soybean
Start	1463	End	1784
GI	none	Score	319
Exons	1463..1783, 1464..1784		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o5.tw	Method	TBLASTX:Wheat

Start 1509  
GI none  
Exons 1509...1910, 1566...1805

End 1910  
Score 307

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o2.tm  
Start 1533  
GI none  
Exons 1533...2060, 1598...1978

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Maize  
End 2060  
Score 395

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o1.ts  
Start 1818  
GI none  
Exons 1818...2075, 1841...2077

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Soybean  
End 2077  
Score 335

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o1.tw  
Start 1997  
GI none  
Exons 1997...2422, 1998...2423, 2008...2424, 2010...2423

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Wheat  
End 2424  
Score 623

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o4.ts  
Start 2082  
GI none  
Exons 2082...2186, 2096...2194, 2190...2276, 2192...2281

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Soybean  
End 2281  
Score 150

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o8.tm  
Start 2346  
GI none  
Exons 2346...2525, 2355...2516, 2360...2524

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Maize  
End 2525  
Score 189

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o1.tc  
Start 2379  
GI none  
Exons 2379...2525, 2411...2500, 5437...5664, 5437...5661, 5439...5663

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Cress  
End 5664  
Score 129

Seq. No. 38248  
Gene No. 78684  
Start 8254  
Name OJ990909\_12.0218.C4.o1.tm  
Start 5434

Seq. ID OJ990909\_12.0218.C4  
Strand -  
End 8648  
Method TBLASTX:Maize  
End 5727

GI	none	Score	189
Exons	5434..5727, 5435..5710, 5440..5727		
Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o3.tw	Method	TBLASTX:Wheat
Start	5476	End	5832
GI	none	Score	326
Exons	5476..5754, 5476..5748, 5478..5750, 5657..5758, 5754..5825, 5758..5832		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o9.tm	Method	TBLASTX:Maize
Start	5764	End	6024
GI	none	Score	185
Exons	5764..6024		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o2.tw	Method	TBLASTX:Wheat
Start	5863	End	6264
GI	none	Score	469
Exons	5863..6261, 5863..6264		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o6.tm	Method	TBLASTX:Maize
Start	6030	End	6255
GI	none	Score	239
Exons	6030..6254, 6031..6255		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o3.tm	Method	TBLASTX:Maize
Start	6256	End	6786
GI	none	Score	299
Exons	6256..6492, 6258..6425, 6502..6582, 6507..6563, 6673..6786, 6726..6785		

Seq. No.	38248	Seq. ID	OJ990909_12.0218.C4
Gene No.	78684	Strand	-
Start	8254	End	8648
Name	OJ990909_12.0218.C4.o4.gp	Method	AAT/GAP
Start	8254	End	8648
GI	568184	Score	547
Exons	8254..8430, 8503..8648		

Seq. No.	38249	Seq. ID	OJ990909_12.0218.C5
Gene No.	78685	Strand	+
Start	1	End	1481
Name	OJ990909_12.0218.C5.o1.np	Method	AAT/NAP



Start	1	End	924
GI	4680186	Score	326
Exons	1..47, 724..924		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38249	Seq. ID	OJ990909_12.0218.C5
Gene No.	78685	Strand	+
Start	1	End	1481
Name	OJ990909_12.0218.C5.o1.gs	Method	GENSCAN
Start	817	End	1481
GI	none	Score	.78
Exons	817..877, 1315..1481		

Seq. No.	38249	Seq. ID	OJ990909_12.0218.C5
Gene No.	78686	Strand	-
Start	478	End	857
Name	OJ990909_12.0218.C5.o1.gp	Method	AAT/GAP
Start	478	End	857
GI	uC-osflcyp033a04b1	Score	641
Exons	478..857		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38249	Seq. ID	OJ990909_12.0218.C5
Gene No.	78687	Strand	-
Start	1314	End	1491
Name	OJ990909_12.0218.C5.o2.np	Method	AAT/NAP
Start	1314	End	1491
GI	6907087	Score	111
Exons	1314..1491		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38250	Seq. ID	OJ990909_12.0218.C6
Gene No.	78688	Strand	+
Start	1	End	1265
Name	OJ990909_12.0218.C6.o1.np	Method	AAT/NAP
Start	1	End	1265
GI	2130055	Score	890
Exons	1..290, 1003..1265		
GI Descrip.	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 2 - barley chloroplast gi 1223748 emb CAA62222  (X90650) ndhB [Hordeum vulgare]		

Seq. No.	38251	Seq. ID	OJ990909_12.0218.C7
Gene No.	78689	Strand	+
Start	1	End	829
Name	OJ990909_12.0218.C7.o1.np	Method	AAT/NAP
Start	1	End	829
GI	5295955	Score	126
Exons	1..122, 299..429, 519..829		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome. (V01555) [Oryza sativa]		

Seq. No.	38251	Seq. ID	OJ990909_12.0218.C7
Gene No.	78690	Strand	-

Start	314	End	671
Name	OJ990909_12.0218.C7.o1.gs	Method	GENSCAN
Start	314	End	671
GI	none	Score	.6
Exons	314..671		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78691	Strand	+
Start	1	End	7256
Name	OJ990909_12.0218.C8.o1.np	Method	AAT/NAP
Start	1	End	120
GI	6721559	Score	129
Exons	1..120		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78691	Strand	+
Start	1	End	7256
Name	OJ990909_12.0218.C8.o3.np	Method	AAT/NAP
Start	1	End	7256
GI	5852180	Score	474
Exons	1..27, 1149..1235, 2243..2322, 6964..7256		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78691	Strand	+
Start	1	End	7256
Name	OJ990909_12.0218.C8.o2.np	Method	AAT/NAP
Start	344	End	4818
GI	4680179	Score	2325
Exons	344..561, 3379..4818		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78691	Strand	+
Start	1	End	7256
Name	OJ990909_12.0218.C8.o1.gs	Method	GENSCAN
Start	2277	End	2688
GI	none	Score	.72
Exons	2277..2434, 2541..2688		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78691	Strand	+
Start	1	End	7256
Name	OJ990909_12.0218.C8.o2.gs	Method	GENSCAN
Start	2999	End	4821
GI	none	Score	.57
Exons	2999..3066, 3353..3745, 3849..4525, 4703..4821		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78692	Strand	+
Start	8297	End	9190
Name	OJ990909_12.0218.C8.o4.np	Method	AAT/NAP
Start	8297	End	9190
GI	5852178	Score	369

Exons 8297..8598, 8630..8733, 9095..9190  
GI Descrip. (AL117265) zhb0008.1 [Oryza sativa]

Seq. No. 38252 Seq. ID OJ990909\_12.0218.C8  
Gene No. 78693 Strand +  
Start 15076 End 15377  
Name OJ990909\_12.0218.C8.o2.gp Method AAT/GAP  
Start 15076 End 15377  
GI 61605\_3.R1084 Score 440  
Exons 15076..15377  
GI Descrip. '1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'

Seq. No. 38252 Seq. ID OJ990909\_12.0218.C8  
Gene No. 78694 Strand -  
Start 6915 End 14795  
Name OJ990909\_12.0218.C8.o3.gs Method GENSCAN  
Start 6915 End 12000  
GI none Score .62  
Exons 6915..7115, 7165..7277, 8330..8738, 9984..10092, 11375..12000

Seq. No. 38252 Seq. ID OJ990909\_12.0218.C8  
Gene No. 78694 Strand -  
Start 6915 End 14795  
Name OJ990909\_12.0218.C8.o5.np Method AAT/NAP  
Start 11597 End 14795  
GI 5852180 Score 401  
Exons 11597..11972, 14708..14795  
GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 38252 Seq. ID OJ990909\_12.0218.C8  
Gene No. 78694 Strand -  
Start 6915 End 14795  
Name OJ990909\_12.0218.C8.o4.gs Method GENSCAN  
Start 13409 End 13640  
GI none Score .49  
Exons 13409..13550, 13555..13640

Seq. No. 38252 Seq. ID OJ990909\_12.0218.C8  
Gene No. 78694 Strand -  
Start 6915 End 14795  
Name OJ990909\_12.0218.C8.o1.gp Method AAT/GAP  
Start 14089 End 14608  
GI uC-osf1M202048c12b1 Score 764  
Exons 14089..14608  
GI Descrip. '5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'

Seq. No. 38252 Seq. ID OJ990909\_12.0218.C8  
Gene No. 78695 Strand -  
Start 16994 End 17402  
Name OJ990909\_12.0218.C8.o2.tw Method TBLASTX:Wheat  
Start 3348 End 3807  
GI none Score 370  
Exons 3348..3689, 3371..3688, 3410..3712, 3685..3807, 3687..3803, 3697..3807

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o1.tc	Method	TBLASTX:Cress
Start	3504	End	3831
GI	none	Score	89
Exons	3504..3686, 3688..3831, 3690..3830		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o1.ts	Method	TBLASTX:Soybean
Start	3594	End	3855
GI	none	Score	83
Exons	3594..3686, 3672..3854, 3685..3855		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o2.tm	Method	TBLASTX:Maize
Start	3654	End	3945
GI	none	Score	56
Exons	3654..3686, 3693..3941, 3694..3945		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o1.tw	Method	TBLASTX:Wheat
Start	3814	End	4440
GI	none	Score	729
Exons	3814..4440, 3816..3848, 3873..4319, 4012..4431, 4380..4439		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o1.tm	Method	TBLASTX:Maize
Start	3993	End	4578
GI	none	Score	233
Exons	3993..4148, 3994..4155, 4152..4316, 4153..4578, 4273..4557, 4380..4577		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o3.tw	Method	TBLASTX:Wheat
Start	4440	End	4773
GI	none	Score	303
Exons	4440..4721, 4441..4773		

Seq. No.	38252	Seq. ID	OJ990909_12.0218.C8
Gene No.	78695	Strand	-
Start	16994	End	17402
Name	OJ990909_12.0218.C8.o5.gs	Method	GENSCAN
Start	16994	End	17402
GI	none	Score	.42
Exons	16994..17214, 17302..17402		

Seq. No.	38253	Seq. ID	OJ990909_12.0218.C9
Gene No.	78696	Strand	+
Start	26	End	427
Name	OJ990909_12.0218.C9.o1.gs	Method	GENSCAN
Start	26	End	427
GI	none	Score	.77
Exons	26..62, 276..427		

Seq. No.	38253	Seq. ID	OJ990909_12.0218.C9
Gene No.	78697	Strand	-
Start	2635	End	2993
Name	OJ990909_12.0218.C9.o1.gp	Method	AAT/GAP
Start	2635	End	2993
GI	LIB3434-003-P1-K1-B12	Score	578
Exons	2635..2993		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78698	Strand	+
Start	329	End	1142
Name	OJ990909_12.0218.C10.o1.np	Method	AAT/NAP
Start	450	End	848
GI	140503	Score	692
Exons	450..848		
GI Descrip.	HYPOTHETICAL 14 KD PROTEIN IN YCF68 TRNI INTRON (ORF 133) gi 82518 pir  JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast gi 12041 emb CAA33945  (X15901) ORF133; ORF within trnI intron [Oryza sativa] gi 12061 emb CAA33915  (X15901) ORF133; ORF within trnI intron [Oryza sativa] gi 226660 prf  1603356CL trnI intron ORF 133 [Oryza sativa]		

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78698	Strand	+
Start	329	End	1142
Name	OJ990909_12.0218.C10.o1.gs	Method	GENSCAN
Start	514	End	1142
GI	none	Score	.41
Exons	514..527, 635..750, 964..1142		

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78699	Strand	-
Start	986	End	1109
Name	OJ990909_12.0218.C10.o2.np	Method	AAT/NAP
Start	986	End	1109
GI	1262721	Score	116
Exons	986..1109		
GI Descrip.	(D17510) ORF40e [Pinus thunbergii]		

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78700	Strand	-
Start	1444	End	1605
Name	OJ990909_12.0218.C10.o2.tc	Method	TBLASTX:Cress
Start	16	End	366
GI	none	Score	71
Exons	16..69, 16..63, 23..64, 24..68, 52..108, 53..109, 57..110, 57..110, 98..184, 101..163, 114..185, 205..270, 219..266,		

240..281, 242..286, 272..301, 279..365, 281..364, 289..366

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78700	Strand	-
Start	1444	End	1605
Name	OJ990909_12.0218.C10.o1.tm	Method	TBLASTX:Maize
Start	19	End	532
GI	none	Score	73
Exons	19..69, 24..68, 52..192, 53..196, 69..197, 70..210, 71..196, 72..209, 219..281, 222..302, 231..530, 260..532, 260..532		

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78700	Strand	-
Start	1444	End	1605
Name	OJ990909_12.0218.C10.o1.ts	Method	TBLASTX:Soybean
Start	1327	End	1605
GI	none	Score	324
Exons	1327..1587, 1329..1571, 1566..1604, 1573..1605		

Seq. No.	38254	Seq. ID	OJ990909_12.0218.C10
Gene No.	78700	Strand	-
Start	1444	End	1605
Name	OJ990909_12.0218.C10.o2.gp	Method	AAT/GAP
Start	1444	End	1605
GI	688_1.R1084	Score	308
Exons	1444..1605		
GI Descrip.	'226661/prf  1603356CM 6.0e-54 trnA intron ORF 109 [Oryza sativa]'		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78701	Strand	+
Start	286	End	647
Name	OJ990909_12.0218.C11.o1.gs	Method	GENSCAN
Start	286	End	647
GI	none	Score	.71
Exons	286..342, 561..647		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78702	Strand	+
Start	634	End	960
Name	OJ990909_12.0218.C11.o2.np	Method	AAT/NAP
Start	634	End	960
GI	226661	Score	512
Exons	634..960		
GI Descrip.	trnA intron ORF 109 [Oryza sativa]		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78703	Strand	-
Start	187	End	1129
Name	OJ990909_12.0218.C11.o2.tc	Method	TBLASTX:Cress
Start	1	End	307
GI	none	Score	217
Exons	1..177, 1..135, 3..137, 126..305, 134..307, 160..306		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78703	Strand	-
Start	187	End	1129

Name	OJ990909_12.0218.C11.o1.ts	Method	TBLASTX:Soybean
Start	70	End	706
GI	none	Score	324
Exons	70..330, 72..314, 306..434, 309..443, 313..459, 316..438, 428..634, 429..620, 436..624, 576..704, 619..705, 620..706		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78703	Strand	-
Start	187	End	1129
Name	OJ990909_12.0218.C11.o1.gp	Method	AAT/GAP
Start	187	End	1129
GI	688_1.R1084	Score	1456
Exons	187..938, 1100..1129		
GI Descrip.	'226661/prf  1603356CM 6.0e-54 trnA intron ORF 109 [Oryza sativa]'		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78703	Strand	-
Start	187	End	1129
Name	OJ990909_12.0218.C11.o1.np	Method	AAT/NAP
Start	307	End	778
GI	320577	Score	171

Exons	307..466, 643..778		
GI Descrip.	pvs protein 1 - kidney bean mitochondrion gi 169320 (M64246) ORF-98; putative [Phaseolus vulgaris]		

Seq. No.	38255	Seq. ID	OJ990909_12.0218.C11
Gene No.	78703	Strand	-
Start	187	End	1129
Name	OJ990909_12.0218.C11.o1.tc	Method	TBLASTX:Cress
Start	320	End	694
GI	none	Score	155
Exons	320..433, 322..432, 359..433, 429..623, 430..624, 431..634, 619..693, 620..694		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78704	Strand	+
Start	1	End	6118
Name	OJ990909_12.0218.C12.o3.np	Method	AAT/NAP
Start	1	End	6118
GI	4680183	Score	198
Exons	1..33, 5352..5422, 6029..6118		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o1.gs	Method	GENSCAN
Start	225	End	5996
GI	none	Score	.67
Exons	225..656, 738..1015, 1044..3417, 3844..3963, 4055..4648, 5889..5996		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o1.np	Method	AAT/NAP

Start	297	End	3417
GI	5042447	Score	4951
Exons	297..1025, 1066..3417		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o1.tw	Method	TBLASTX:Wheat
Start	312	End	821
GI	none	Score	226
Exons	312..821, 396..743, 478..789		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o1.tm	Method	TBLASTX:Maize
Start	384	End	749
GI	none	Score	151
Exons	384..695, 391..588, 396..749, 481..747		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o3.tm	Method	TBLASTX:Maize
Start	756	End	1143
GI	none	Score	35
Exons	756..1058, 757..786, 795..1007, 826..1035, 1063..1143, 1070..1132		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o4.tw	Method	TBLASTX:Wheat
Start	822	End	1164
GI	none	Score	191
Exons	822..1061, 823..1068, 829..1065, 1061..1132, 1063..1164		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o1.ts	Method	TBLASTX:Soybean
Start	836	End	1272
GI	none	Score	119
Exons	836..943, 837..1061, 838..1068, 1063..1236, 1156..1236, 1228..1272, 1240..1272		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o2.tm	Method	TBLASTX:Maize
Start	1159	End	1626
GI	none	Score	58
Exons	1159..1626, 1385..1555		

Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-



Start	225	End	5996
Name	OJ990909_12.0218.C12.o2.tw	Method	TBLASTX:Wheat
Start	1213	End	1695
GI	none	Score	159
Exons	1213..1695, 1246..1566, 1256..1591		
Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o2.ts	Method	TBLASTX:Soybean
Start	1345	End	1659
GI	none	Score	58
Exons	1345..1659, 1346..1543		
Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o5.tw	Method	TBLASTX:Wheat
Start	1858	End	2274
GI	none	Score	100
Exons	1858..2043, 1859..2014, 2065..2274, 2126..2239		
Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o5.tm	Method	TBLASTX:Maize
Start	1955	End	2277
GI	none	Score	36
Exons	1955..2014, 1957..2277, 2132..2233		
Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o4.tm	Method	TBLASTX:Maize
Start	2614	End	2910
GI	none	Score	107
Exons	2614..2910, 2626..2910, 2723..2893		
Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o3.tw	Method	TBLASTX:Wheat
Start	2791	End	3151
GI	none	Score	93
Exons	2791..3150, 2792..3025, 3050..3151		
Seq. No.	38256	Seq. ID	OJ990909_12.0218.C12
Gene No.	78705	Strand	-
Start	225	End	5996
Name	OJ990909_12.0218.C12.o2.np	Method	AAT/NAP
Start	3668	End	4582
GI	5042448	Score	1376
Exons	3668..3962, 4020..4582		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13

Gene No.	78706	Strand	+
Start	1	End	5433
Name	OJ990909_12.0218.C13.o1.np	Method	AAT/NAP
Start	1	End	5433
GI	4680179	Score	3093
Exons	1..1055, 1083..2840, 5415..5433		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78706	Strand	+
Start	1	End	5433
Name	OJ990909_12.0218.C13.o1.gs	Method	GENSCAN
Start	263	End	2639
GI	none	Score	.59
Exons	263..391, 416..917, 942..1990, 2014..2069, 2143..2639		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78707	Strand	+
Start	7110	End	7534
Name	OJ990909_12.0218.C13.o2.gp	Method	AAT/GAP
Start	7110	End	7534
GI	3073_1_R1084	Score	817
Exons	7110..7534		
GI Descrip.	'133936/sp P12146 RR3_ORYSA 5.0e-95 CHLOROPLAST 30S RIBOSOMAL PROTEIN S3 >gi_70867_pir_R3RZ3 ribosomal protein S3 - rice chloroplast >gi_12025_emb_CAA33934 (X15901) ribosomal protein S3 [Oryza sativa] >gi_226646_prf_1603356BW ribosomal protein S3 [Oryza sativa]'		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78708	Strand	-
Start	2907	End	3116
Name	OJ990909_12.0218.C13.o1.gp	Method	AAT/GAP
Start	2907	End	3116
GI	1631463	Score	310
Exons	2907..3116		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78709	Strand	-
Start	3605	End	3695
Name	OJ990909_12.0218.C13.o2.np	Method	AAT/NAP
Start	3605	End	3695
GI	6721561	Score	126
Exons	3605..3695		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o9.tw	Method	TBLASTX:Wheat

Start	231	End	401
GI	none	Score	183
Exons	231..401, 233..397		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o7.tw	Method	TBLASTX:Wheat
Start	453	End	1303
GI	none	Score	295
Exons	453..701, 456..800, 1265..1303		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o8.tm	Method	TBLASTX:Maize
Start	471	End	794
GI	none	Score	229
Exons	471..794		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o8.tw	Method	TBLASTX:Wheat
Start	1140	End	1493
GI	none	Score	217
Exons	1140..1493		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o2.tw	Method	TBLASTX:Wheat
Start	1625	End	2108
GI	none	Score	536
Exons	1625..2065, 1626..2108, 1737..2105		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o4.ts	Method	TBLASTX:Soybean
Start	1662	End	1976
GI	none	Score	198
Exons	1662..1976		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o6.tm	Method	TBLASTX:Maize
Start	1691	End	2138
GI	none	Score	372
Exons	1691..1933, 1695..2138		
Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o2.ts	Method	TBLASTX:Soybean
Start	2049	End	2444

GI	none	Score	57
Exons	2049..2081, 2085..2129, 2087..2125, 2185..2220, 2193..2444, 2201..2434		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o6.tw	Method	TBLASTX:Wheat
Start	2157	End	2426
GI	none	Score	62
Exons	2157..2258, 2177..2251, 2195..2425, 2196..2426, 2328..2426		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o5.tm	Method	TBLASTX:Maize
Start	2340	End	2780
GI	none	Score	404
Exons	2340..2747, 2393..2716, 2739..2780		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o3.tw	Method	TBLASTX:Wheat
Start	2429	End	2840
GI	none	Score	531
Exons	2429..2524, 2430..2840, 2552..2824, 2635..2838		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o6.ts	Method	TBLASTX:Soybean
Start	2466	End	2714
GI	none	Score	188
Exons	2466..2714, 2492..2596		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o2.gs	Method	GENSCAN
Start	4577	End	7089
GI	none	Score	.4
Exons	4577..4838, 4921..4960, 5053..5243, 5585..5596, 6131..7089		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o9.tm	Method	TBLASTX:Maize
Start	5995	End	6225
GI	none	Score	198
Exons	5995..6027, 6028..6225		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o3.np	Method	AAT/NAP
Start	6004	End	9154

GI 4680179 Score 1825  
 Exons 6004..7113, 9122..9154  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o5.tw Method TBLASTX:Wheat  
 Start 6049 End 6382  
 GI none Score 58  
 Exons 6049..6381, 6179..6289, 6274..6354, 6311..6382

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o2.tm Method TBLASTX:Maize  
 Start 6229 End 6828  
 GI none Score 267  
 Exons 6229..6669, 6242..6667, 6667..6828, 6674..6820

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o1.tw Method TBLASTX:Wheat  
 Start 6382 End 7001  
 GI none Score 357  
 Exons 6382..6891, 6383..6892, 6894..7001, 6898..6999

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o7.tm Method TBLASTX:Maize  
 Start 6888 End 7106  
 GI none Score 81  
 Exons 6888..7103, 6891..7016, 6892..7098, 7062..7106

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o5.ts Method TBLASTX:Soybean  
 Start 6960 End 7103  
 GI none Score 110  
 Exons 6960..7103, 6961..7098

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o3.tm Method TBLASTX:Maize  
 Start 7141 End 7551  
 GI none Score 454  
 Exons 7141..7455, 7150..7419, 7157..7456, 7386..7460, 7392..7460, 7421..7510, 7447..7506, 7449..7550, 7449..7550, 7462..7551

Seq. No. 38257 Seq. ID OJ990909\_12.0218.C13  
 Gene No. 78710 Strand -  
 Start 4577 End 9154  
 Name OJ990909\_12.0218.C13.o4.np Method AAT/NAP

Start	7156	End	7434
GI	1213601	Score	484
Exons	7156..7434		
GI Descrip.	(X15901) ribosomal protein S19 [Oryza sativa] gi 226648 prf  1603356BY ribosomal protein S19 [Oryza sativa]		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o1.ts	Method	TBLASTX:Soybean
Start	7185	End	8916
GI	none	Score	180
Exons	7185..7337, 7189..7422, 7199..7423, 7427..7453, 7428..7451, 7648..7992, 7701..7991, 7702..8031, 7757..7996, 7937..8146, 7964..8161, 8064..8162, 8133..8279, 8148..8246, 8205..8459, 8240..8281, 8284..8490, 8465..8542, 8466..8543, 8521..8916, 8535..8828		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o2.tc	Method	TBLASTX:Cress
Start	7324	End	8212
GI	none	Score	92
Exons	7324..7422, 7327..7416, 7562..7612, 7563..7613, 7563..7640, 7564..7620, 7614..7643, 7614..7643, 7615..7644, 7700..7867, 7701..7820, 7701..7868, 7702..7869, 7702..7872, 7757..7873, 7883..8131, 7887..8126, 7895..8212, 8064..8132		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o5.np	Method	AAT/NAP
Start	7434	End	7679
GI	82538	Score	439
Exons	7434..7679		
GI Descrip.	hypothetical 9K protein (rps19-rpl2 intergenic region) - rice chloroplast gi 12028 emb CAA33936  (X15901) ORF82 [Oryza sativa] gi 12074 emb CAA33926  (X15901) ORF82 [Oryza sativa] gi 226650 prf  1603356CA ORF 82 [Oryza sativa]		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o6.np	Method	AAT/NAP
Start	7699	End	9154
GI	1213600	Score	1347
Exons	7699..8126, 8789..9154		
GI Descrip.	(X15901) ribosomal protein L2 [Oryza sativa] gi 1213602 emb CAA33928  (X15901) ribosomal protein L2 [Oryza sativa] gi 226679 prf  1603356DG ribosomal protein L2 [Oryza sativa]		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o1.tm	Method	TBLASTX:Maize

Start	7733	End	8561
GI	none	Score	1067
Exons	7733..8467, 7757..8431, 8064..8465, 8424..8555, 8433..8561		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o4.tw	Method	TBLASTX:Wheat
Start	7874	End	8180
GI	none	Score	448
Exons	7874..8179, 7874..8179, 8064..8180		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o1.tc	Method	TBLASTX:Cress
Start	8467	End	9153
GI	none	Score	251
Exons	8467..8640, 8467..8661, 8543..8674, 8661..8777, 8662..8781, 8785..8994, 8787..9053, 8789..9055, 8790..9113, 9054..9152, 9055..9153, 9056..9148, 9057..9152		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o4.tm	Method	TBLASTX:Maize
Start	8785	End	9154
GI	none	Score	304
Exons	8785..8994, 8787..9035, 8790..9035, 8864..9037, 8971..9036, 9054..9152, 9055..9153, 9056..9154, 9074..9154		

Seq. No.	38257	Seq. ID	OJ990909_12.0218.C13
Gene No.	78710	Strand	-
Start	4577	End	9154
Name	OJ990909_12.0218.C13.o3.ts	Method	TBLASTX:Soybean
Start	8917	End	9153
GI	none	Score	107
Exons	8917..8994, 8919..9053, 8921..9064, 8922..9056, 9020..9148, 9054..9152, 9055..9153, 9055..9153		

Seq. No.	38258	Seq. ID	OJ990909_12.0218.C14
Gene No.	78711	Strand	+
Start	1	End	422
Name	OJ990909_12.0218.C14.o1.np	Method	AAT/NAP
Start	1	End	422
GI	2130154	Score	526
Exons	1..422		
GI Descrip.	hypothetical protein 241 - maize chloroplast gi 902268 emb CAA60333  (X86563) ORF241 [Zea mays] gi 902303 emb CAA60367  (X86563) ORF241 [Zea mays]		

Seq. No.	38258	Seq. ID	OJ990909_12.0218.C14
Gene No.	78711	Strand	+
Start	1	End	422
Name	OJ990909_12.0218.C14.o1.tc	Method	TBLASTX:Cress
Start	1	End	258
GI	none	Score	54

Exons 1..42, 5..40, 6..44, 6..44, 29..124, 39..125, 39..152, 40..126,  
127..258, 129..209, 136..216

Seq. No.	38258	Seq. ID	OJ990909_12.0218.C14
Gene No.	78711	Strand	+
Start	1	End	422
Name	OJ990909_12.0218.C14.o1.gs	Method	GENSCAN
Start	94	End	213
GI	none	Score	.72
Exons	94..213		

Seq. No.	38258	Seq. ID	OJ990909_12.0218.C14
Gene No.	78711	Strand	+
Start	1	End	422
Name	OJ990909_12.0218.C14.o1.ts	Method	TBLASTX:Soybean
Start	206	End	385
GI	none	Score	52
Exons	206..235, 208..231, 241..381, 245..385		

Seq. No.	38259	Seq. ID	OJ990909_12.0218.C15
Gene No.	78712	Strand	-
Start	1	End	1110
Name	OJ990909_12.0218.C15.o1.np	Method	AAT/NAP
Start	1	End	1110
GI	5042447	Score	887
Exons	1..690, 718..1110		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	38259	Seq. ID	OJ990909_12.0218.C15
Gene No.	78712	Strand	-
Start	1	End	1110
Name	OJ990909_12.0218.C15.o1.gs	Method	GENSCAN
Start	76	End	951
GI	none	Score	.43
Exons	76..404, 633..951		

Seq. No.	38259	Seq. ID	OJ990909_12.0218.C15
Gene No.	78712	Strand	-
Start	1	End	1110
Name	OJ990909_12.0218.C15.o1.tm	Method	TBLASTX:Maize
Start	79	End	276
GI	none	Score	133
Exons	79..276, 80..238		

Seq. No.	38259	Seq. ID	OJ990909_12.0218.C15
Gene No.	78712	Strand	-
Start	1	End	1110
Name	OJ990909_12.0218.C15.o1.tw	Method	TBLASTX:Wheat
Start	100	End	492
GI	none	Score	113
Exons	100..240, 101..229, 244..492, 334..378, 365..424		

Seq. No.	38259	Seq. ID	OJ990909_12.0218.C15
Gene No.	78712	Strand	-
Start	1	End	1110
Name	OJ990909_12.0218.C15.o2.tm	Method	TBLASTX:Maize
Start	367	End	687



GI	none	Score	180
Exons	367..687		
Seq. No.	38259	Seq. ID	OJ990909_12.0218.C15
Gene No.	78712	Strand	-
Start	1	End	1110
Name	OJ990909_12.0218.C15.o2.tw	Method	TBLASTX:Wheat
Start	496	End	801
GI	none	Score	65
Exons	496..681, 754..801		
Seq. No.	38260	Seq. ID	OJ990909_12.0218.C16
Gene No.	78713	Strand	+
Start	3065	End	3460
Name	OJ990909_12.0218.C16.o2.gs	Method	GENSCAN
Start	3065	End	3460
GI	none	Score	.68
Exons	3065..3460		
Seq. No.	38260	Seq. ID	OJ990909_12.0218.C16
Gene No.	78714	Strand	-
Start	51	End	2100
Name	OJ990909_12.0218.C16.o1.gs	Method	GENSCAN
Start	51	End	2100
GI	none	Score	.93
Exons	51..811, 2019..2100		
Seq. No.	38260	Seq. ID	OJ990909_12.0218.C16
Gene No.	78714	Strand	-
Start	51	End	2100
Name	OJ990909_12.0218.C16.o1.np	Method	AAT/NAP
Start	54	End	815
GI	4512229	Score	1092
Exons	54..815		
GI Descrip.	(AB014740) ORF0 protein [Oryza sativa]		
Seq. No.	38260	Seq. ID	OJ990909_12.0218.C16
Gene No.	78715	Strand	-
Start	2040	End	3702
Name	OJ990909_12.0218.C16.o2.np	Method	AAT/NAP
Start	2040	End	3702
GI	6063554	Score	255
Exons	2040..2209, 3129..3387, 3505..3702		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza-sativa]		
Seq. No.	38260	Seq. ID	OJ990909_12.0218.C16
Gene No.	78716	Strand	-
Start	3652	End	5859
Name	OJ990909_12.0218.C16.o3.gs	Method	GENSCAN
Start	3652	End	5859
GI	none	Score	.67
Exons	3652..3851, 5020..5083, 5285..5328, 5757..5859		
Seq. No.	38261	Seq. ID	OJ990909_12.0218.C18
Gene No.	78717	Strand	-

Start	1	End	1271
Name	OJ990909_12.0218.C18.o1.np	Method	AAT/NAP
Start	1	End	1271
GI	5295955	Score	427
Exons	1..368, 401..477, 1158..1271		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	38261	Seq. ID	OJ990909_12.0218.C18
Gene No.	78717	Strand	-
Start	1	End	1271
Name	OJ990909_12.0218.C18.o1.gs	Method	GENSCAN
Start	67	End	439
GI	none	Score	.45
Exons	67..439		

Seq. No.	38262	Seq. ID	OJ990909_12.0218.C19
Gene No.	78718	Strand	+
Start	214	End	1116
Name	OJ990909_12.0218.C19.o1.gp	Method	AAT/GAP
Start	214	End	1116
GI	none	Score	1172
Exons	214..488, 732..1116		

Seq. No.	38262	Seq. ID	OJ990909_12.0218.C19
Gene No.	78719	Strand	-
Start	1136	End	2116
Name	OJ990909_12.0218.C19.o1.tw	Method	TBLASTX:Wheat
Start	250	End	882
GI	none	Score	181
Exons	250..273, 283..384, 299..487, 358..486, 366..488, 731..772, 735..773, 749..874, 759..878, 763..882		

Seq. No.	38262	Seq. ID	OJ990909_12.0218.C19
Gene No.	78719	Strand	-
Start	1136	End	2116
Name	OJ990909_12.0218.C19.o2.gs	Method	GENSCAN
Start	1136	End	2116
GI	none	Score	.71
Exons	1136..1169, 1952..2072, 2110..2116		

Seq. No.	38263	Seq. ID	OJ990909_12.0218.C21
Gene No.	78720	Strand	+
Start	353	End	559
Name	OJ990909_12.0218.C21.o1.gp	Method	AAT/GAP
Start	353	End	559
GI	LIB3431-001-P1-N1-B5	Score	379
Exons	353..559		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	38263	Seq. ID	OJ990909_12.0218.C21
Gene No.	78721	Strand	-
Start	214	End	252
Name	OJ990909_12.0218.C21.o1.gs	Method	GENSCAN
Start	214	End	252
GI	none	Score	.53

Exons 214..252

Seq. No.	38264	Seq. ID	OJ990909_12.0218.C22
Gene No.	78722	Strand	+
Start	308	End	447
Name	OJ990909_12.0218.C22.o1.gs	Method	GENSCAN
Start	308	End	447
GI	none	Score	.68
Exons	308..447		

Seq. No.	38264	Seq. ID	OJ990909_12.0218.C22
Gene No.	78723	Strand	-
Start	193	End	582
Name	OJ990909_12.0218.C22.o1.np	Method	AAT/NAP
Start	193	End	582
GI	6063554	Score	114
Exons	193..582		

GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	38265	Seq. ID	OJ990909_12.0218.C23
Gene No.	78724	Strand	-
Start	249	End	360
Name	OJ990909_12.0218.C23.o1.gs	Method	GENSCAN
Start	249	End	360
GI	none	Score	.86
Exons	249..360		

Seq. No.	38266	Seq. ID	OJ990909_12.0218.C24
Gene No.	78725	Strand	-
Start	28	End	113
Name	OJ990909_12.0218.C24.o1.gs	Method	GENSCAN
Start	28	End	113
GI	none	Score	.58
Exons	28..113		

Seq. No.	38267	Seq. ID	OJ990909_12.0218.C25
Gene No.	78726	Strand	-
Start	48	End	568
Name	OJ990909_12.0218.C25.o1.gs	Method	GENSCAN
Start	48	End	568
GI	none	Score	.73
Exons	48..265, 271..568		

Seq. No.	38268	Seq. ID	OJ990909_12.0218.C26
Gene No.	78727	Strand	+
Start	863	End	966
Name	OJ990909_12.0218.C26.o1.gp	Method	AAT/GAP
Start	863	End	966
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	863..966		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
----------	-------	---------	----------------------

Gene No.	78728	Strand	+
Start	290	End	397
Name	OJ990909_12.0218.C27.o1.gp	Method	AAT/GAP
Start	290	End	397
GI	LIB3477-003-P1-K1-E9	Score	146
Exons	290..397		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78729	Strand	+
Start	555	End	610
Name	OJ990909_12.0218.C27.o1.gs	Method	GENSCAN
Start	555	End	610
GI	none	Score	.64
Exons	555..610		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78730	Strand	+
Start	4657	End	7835
Name	OJ990909_12.0218.C27.o3.gs	Method	GENSCAN
Start	4657	End	7835
GI	none	Score	.61
Exons	4657..4740, 5090..5294, 5879..6014, 6998..7055, 7148..7349, 7729..7835		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78730	Strand	+
Start	4657	End	7835
Name	OJ990909_12.0218.C27.o2.np	Method	AAT/NAP
Start	7148	End	7352
GI	4680186	Score	240
Exons	7148..7352		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78731	Strand	-
Start	2041	End	4703
Name	OJ990909_12.0218.C27.o1.np	Method	AAT/NAP
Start	2041	End	4703
GI	6742729	Score	1725
Exons	2041..3460, 4652..4703		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78732	Strand	-
Start	6900	End	7281
Name	OJ990909_12.0218.C27.o2.gp	Method	AAT/GAP
Start	6900	End	7281
GI	uC-osflcyp033a04b1	Score	639
Exons	6900..7281		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-

Start	7728	End	9467
Name	OJ990909_12.0218.C27.o1.tw	Method	TBLASTX:Wheat
Start	1572	End	2875
GI	none	Score	51
Exons	1572..1649, 1574..1645, 1638..1718, 1666..1719, 1723..1821, 1724..1840, 1725..1841, 1732..1872, 1743..1871, 1801..1914, 1851..1910, 1917..1961, 1918..1962, 1925..1981, 1927..1962, 1956..2813, 1972..2292, 1989..2732, 2350..2805, 2809..2874, 2813..2875		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o1.tc	Method	TBLASTX:Cress
Start	2139	End	2586
GI	none	Score	172
Exons	2139..2582, 2139..2582, 2179..2586, 2341..2586		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o1.tm	Method	TBLASTX:Maize
Start	2514	End	2832
GI	none	Score	122
Exons	2514..2813, 2545..2832		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o1.ts	Method	TBLASTX:Soybean
Start	3063	End	3305
GI	none	Score	201
Exons	3063..3305		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o2.tm	Method	TBLASTX:Maize
Start	3135	End	3458
GI	none	Score	114
Exons	3135..3329, 3339..3458		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o2.tw	Method	TBLASTX:Wheat
Start	3174	End	3461
GI	none	Score	85
Exons	3174..3377, 3214..3375, 3378..3461, 3378..3458		

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o3.np	Method	AAT/NAP
Start	7728	End	9467
GI	6907087	Score	984
Exons	7728..7829, 8371..9057, 9103..9467		

GI Descrip. (AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	38269	Seq. ID	OJ990909_12.0218.C27
Gene No.	78733	Strand	-
Start	7728	End	9467
Name	OJ990909_12.0218.C27.o4.gs	Method	GENSCAN
Start	8075	End	9213
GI	none	Score	.8
Exons	8075..8969, 9051..9213		

Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78734	Strand	+
Start	2172	End	2723
Name	OJ990909_12.0218.C28.o1.gs	Method	GENSCAN
Start	2172	End	2723
GI	none	Score	.58
Exons	2172..2723		

Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o1.np	Method	AAT/NAP
Start	3233	End	5056
GI	4680179	Score	2553
Exons	3233..5056		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o4.tw	Method	TBLASTX:Wheat
Start	3278	End	3612
GI	none	Score	40
Exons	3278..3514, 3480..3515, 3480..3611, 3541..3612		

Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o1.tm	Method	TBLASTX:Maize
Start	3473	End	4058
GI	none	Score	58
Exons	3473..3514, 3510..3899, 3598..3687, 3736..3900, 3897..4058, 3904..4050, 3906..4052		

Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o1.tw	Method	TBLASTX:Wheat
Start	3612	End	4233
GI	none	Score	252
Exons	3612..4232, 3654..4229, 3733..4233		

Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056

Name	OJ990909_12.0218.C28.o2.tm	Method	TBLASTX:Maize
Start	4107	End	4398
GI	none	Score	282
Exons	4107..4397, 4111..4398		
Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o1.ts	Method	TBLASTX:Soybean
Start	4197	End	4433
GI	none	Score	71
Exons	4197..4394, 4197..4433, 4198..4425		
Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o2.tw	Method	TBLASTX:Wheat
Start	4245	End	4781
GI	none	Score	336
Exons	4245..4781, 4246..4779		
Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o3.tm	Method	TBLASTX:Maize
Start	4813	End	5054
GI	none	Score	43
Exons	4813..4860, 4820..4852, 4855..5001, 4858..5001, 5004..5054		
Seq. No.	38270	Seq. ID	OJ990909_12.0218.C28
Gene No.	78735	Strand	-
Start	3233	End	5056
Name	OJ990909_12.0218.C28.o3.tw	Method	TBLASTX:Wheat
Start	4813	End	5054
GI	none	Score	102
Exons	4813..4863, 4840..5019, 4849..5001, 5004..5054		
Seq. No.	38271	Seq. ID	OJ990909_12.0218.C29
Gene No.	78736	Strand	
Start	101	End	626
Name	OJ990909_12.0218.C29.o1.tc	Method	TBLASTX:Cress
Start	101	End	399
GI	none	Score	74
Exons	101..205, 129..197, 130..213, 205..252, 224..253, 245..262, 277..369, 280..369, 285..371, 370..399		
Seq. No.	38271	Seq. ID	OJ990909_12.0218.C29
Gene No.	78736	Strand	
Start	101	End	626
Name	OJ990909_12.0218.C29.o1.tw	Method	TBLASTX:Wheat
Start	292	End	626
GI	none	Score	92
Exons	292..369, 292..369, 371..427, 371..427, 402..482, 407..484, 409..486, 418..480, 434..499, 444..512, 445..486, 472..492, 497..547, 497..538, 498..590, 498..548, 537..626, 537..626		
Seq. No.	38272	Seq. ID	OJ990909_12.0218.C31

Gene No.	78737	Strand	-
Start	93	End	131
Name	OJ990909_12.0218.C31.ol.gs	Method	GENSCAN
Start	93	End	131
GI	none	Score	.5
Exons	93..131		

Seq. No.	38273	Seq. ID	OJ990909_12.0218.C32
Gene No.	78738	Strand	+
Start	1	End	481
Name	OJ990909_12.0218.C32.ol.np	Method	AAT/NAP
Start	1	End	481
GI	5922631	Score	184
Exons	1..33, 186..246, 316..481		
GI Descrip.	(AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativ		

Seq. No.	38274	Seq. ID	OJ990909_12.0218.C37
Gene No.	78739	Strand	+
Start	170	End	560
Name	OJ990909_12.0218.C37.ol.gs	Method	GENSCAN
Start	170	End	560
GI	none	Score	.72
Exons	170..560		

Seq. No.	38274	Seq. ID	OJ990909_12.0218.C37
Gene No.	78740	Strand	-
Start	1	End	598
Name	OJ990909_12.0218.C37.ol.np	Method	AAT/NAP
Start	1	End	598
GI	5852179	Score	55
Exons	1..267, 420..598		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	38275	Seq. ID	OJ990409_09.0204.C3
Gene No.	78741	Strand	-
Start	157	End	596
Name	OJ990409_09.0204.C3.ol.gs	Method	GENSCAN
Start	157	End	596
GI	none	Score	.73
Exons	157..239, 453..596		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.ol.gs	Method	GENSCAN
Start	495	End	1873
GI	none	Score	.77
Exons	495..730, 959..995, 997..1644, 1734..1873		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-



Start	495	End	1976
Name	OJ990409_09.0204.C4.o2.gp		Method AAT/GAP
Start	683	End	1976
GI	360_16.R1084	Score	1516
Exons	683..1644, 1734..1976		
GI Descrip.	'2570513 4.0e-17 (AF022739) chlorophyll a-b binding protein [Oryza sativa]'		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o1.gp	Method	AAT/GAP
Start	819	End	1029
GI	LIB3432-045-P1-K1-H11	Score	344
Exons	819..1029		
GI Descrip.	'3126853/gb AF061577 AF061577 2.0e-64 Oryza sativa chlorophyll a/b binding protein (RCABP89) mRNA, nuclear gene encoding chloroplast protein, complete cds'		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o1.tm	Method	TBLASTX:Maize
Start	874	End	1880
GI	none	Score	381
Exons	874..906, 975..1643, 976..1227, 1165..1221, 1284..1505, 1300..1644, 1523..1645, 1580..1645, 1728..1757, 1729..1779, 1730..1792, 1823..1876, 1825..1875, 1827..1880, 1839..1877		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o1.ts	Method	TBLASTX:Soybean
Start	979	End	1795
GI	none	Score	318
Exons	979..1224, 981..1643, 1287..1505, 1303..1644, 1438..1644, 1581..1646, 1730..1795, 1731..1778, 1732..1779		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o1.tc	Method	TBLASTX:Cress
Start	990	End	1792
GI	none	Score	295
Exons	990..1643, 994..1224, 1284..1505, 1306..1644, 1730..1792, 1731..1778		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o1.np	Method	AAT/NAP
Start	996	End	1873
GI	3126854	Score	1363
Exons	996..1644, 1734..1873		
GI Descrip.	(AF061577) chlorophyll a/b binding protein [Oryza sativa]		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
----------	-------	---------	---------------------

Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o1.tw	Method	TBLASTX:Wheat
Start	1002	End	1446
GI	none	Score	318
Exons	1002..1301, 1003..1224, 1302..1445, 1303..1446		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o2.tw	Method	TBLASTX:Wheat
Start	1461	End	1645
GI	none	Score	260
Exons	1461..1643, 1465..1644, 1483..1542, 1517..1645		

Seq. No.	38276	Seq. ID	OJ990409_09.0204.C4
Gene No.	78742	Strand	-
Start	495	End	1976
Name	OJ990409_09.0204.C4.o3.gp	Method	AAT/GAP
Start	1746	End	1936
GI	LIB3431-039-P1-K2-B6	Score	248
Exons	1746..1936		

GI Descrip. '3126854.7.0e-10 (AF061577) chlorophyll a/b binding protein [Oryza sativa]'

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78743	Strand	+
Start	2932	End	10785
Name	OJ990409_09.0204.C5.o3.np	Method	AAT/NAP
Start	2932	End	7732
GI	4680203	Score	1392
Exons	2932..3111, 4413..5940, 6007..6116, 6276..6502, 6779..7732		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78743	Strand	+
Start	2932	End	10785
Name	OJ990409_09.0204.C5.o2.gs	Method	GENSCAN
Start	4525	End	10785
GI	none	Score	.47
Exons	4525..4873, 5575..6006, 6103..6204, 6678..7700, 8957..9047, 10061..10249, 10318..10578, 10653..10785		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78744	Strand	-
Start	1	End	3343
Name	OJ990409_09.0204.C5.o1.np	Method	AAT/NAP
Start	1	End	509
GI	5257269	Score	322
Exons	1..121, 286..509		
GI Descrip.	(AP000364) hypothetical protein [Oryza sativa]		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78744	Strand	-
Start	1	End	3343
Name	OJ990409_09.0204.C5.o1.gs	Method	GENSCAN
Start	103	End	3343

GI	none	Score	.81
Exons	103..188, 410..803, 1100..1504, 2768..2949, 2971..3067, 3212..3343		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78744	Strand	-
Start	1	End	3343
Name	OJ990409_09.0204.C5.o2.np	Method	AAT/NAP
Start	587	End	3130
GI	5257270	Score	816
Exons	587..803, 1100..1504, 3014..3130		
GI Descrip.	(AP000364) hypothetical protein [Oryza sativa]		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78745	Strand	-
Start	8495	End	8754
Name	OJ990409_09.0204.C5.o1.gp	Method	AAT/GAP
Start	8495	End	8754
GI	61605_3.R1084	Score	424
Exons	8495..8754		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o1.ts	Method	TBLASTX:Soybean
Start	5024	End	5426
GI	none	Score	80
Exons	5024..5122, 5025..5117, 5186..5413, 5196..5426		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o2.tc	Method	TBLASTX:Cress
Start	5154	End	5507
GI	none	Score	262
Exons	5154..5507, 5238..5501		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o2.tm	Method	TBLASTX:Maize
Start	5249	End	5486
GI	none	Score	62
Exons	5249..5470, 5276..5461, 5280..5480, 5283..5486		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o2.tw	Method	TBLASTX:Wheat
Start	5279	End	5594
GI	none	Score	320
Exons	5279..5539, 5280..5594		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-

Start	9106	End	10937
Name	OJ990409_09.0204.C5.o1.tm	Method	TBLASTX:Maize
Start	6362	End	6745
GI	none	Score	59
Exons	6362..6430, 6430..6741, 6431..6745		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o1.tw	Method	TBLASTX:Wheat
Start	6386	End	7594
GI	none	Score	535
Exons	6386..7141, 6631..6915, 7120..7287, 7154..7309, 7298..7402, 7328..7384, 7415..7519, 7420..7518, 7526..7594		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o1.tc	Method	TBLASTX:Cress
Start	6676	End	7099
GI	none	Score	319
Exons	6676..6915, 6677..7099		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o3.tm	Method	TBLASTX:Maize
Start	6995	End	7290
GI	none	Score	162
Exons	6995..7165, 7004..7156, 7169..7288, 7177..7290		

Seq. No.	38277	Seq. ID	OJ990409_09.0204.C5
Gene No.	78746	Strand	-
Start	9106	End	10937
Name	OJ990409_09.0204.C5.o4.np	Method	AAT/NAP
Start	9106	End	10937
GI	6063554	Score	297
Exons	9106..9281, 10182..10432, 10550..10937		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38278	Seq. ID	OJ990409_09.0204.C6
Gene No.	78747	Strand	-
Start	1	End	470
Name	OJ990409_09.0204.C6.o1.np	Method	AAT/NAP
Start	1	End	470
GI	2944417	Score	366
Exons	1..183, 250..470		
GI Descrip.	(AF049881) peroxidase FLXPER4 [Linum usitatissimum]		

Seq. No.	38278	Seq. ID	OJ990409_09.0204.C6
Gene No.	78747	Strand	-
Start	1	End	470
Name	OJ990409_09.0204.C6.o1.ts	Method	TBLASTX:Soybean
Start	83	End	448
GI	none	Score	73

Exons	83..181, 94..183, 247..447, 257..448		
Seq. No.	38278	Seq. ID	OJ990409_09.0204.C6
Gene No.	78747	Strand	-
Start	1	End	470
Name	OJ990409_09.0204.C6.o1.tw	Method	TBLASTX:Wheat
Start	83	End	394
GI	none	Score	81
Exons	83..235, 94..189, 262..393, 263..394		
Seq. No.	38278	Seq. ID	OJ990409_09.0204.C6
Gene No.	78747	Strand	-
Start	1	End	470
Name	OJ990409_09.0204.C6.o1.tc	Method	TBLASTX:Cress
Start	94	End	448
GI	none	Score	57
Exons	94..210, 95..181, 250..447, 266..448		
Seq. No.	38278	Seq. ID	OJ990409_09.0204.C6
Gene No.	78747	Strand	-
Start	1	End	470
Name	OJ990409_09.0204.C6.o1.tm	Method	TBLASTX:Maize
Start	100	End	448
GI	none	Score	140
Exons	100..189, 247..447, 248..448		
Seq. No.	38278	Seq. ID	OJ990409_09.0204.C6
Gene No.	78747	Strand	-
Start	1	End	470
Name	OJ990409_09.0204.C6.o1.gs	Method	GENSCAN
Start	250	End	390
GI	none	Score	.59
Exons	250..390		
Seq. No.	38279	Seq. ID	OJ990409_09.0204.C7
Gene No.	78748	Strand	-
Start	1	End	222
Name	OJ990409_09.0204.C7.o1.gp	Method	AAT/GAP
Start	1	End	222
GI	none	Score	146
Exons	1..54, 194..222		
Seq. No.	38279	Seq. ID	OJ990409_09.0204.C7
Gene No.	78749	Strand	-
Start	194	End	606
Name	OJ990409_09.0204.C7.o1.gs	Method	GENSCAN
Start	194	End	606
GI	none	Score	.92
Exons	194..606		
Seq. No.	38279	Seq. ID	OJ990409_09.0204.C7
Gene No.	78750	Strand	-
Start	544	End	891
Name	OJ990409_09.0204.C7.o1.tm	Method	TBLASTX:Maize
Start	171	End	609
GI	none	Score	135
Exons	171..422, 171..434, 343..435, 402..608, 440..604, 445..609		

Seq. No.	38279	Seq. ID	OJ990409_09.0204.C7
Gene No.	78750	Strand	-
Start	544	End	891
Name	OJ990409_09.0204.C7.o2.gp	Method	AAT/GAP
Start	544	End	891
GI	LIB3434-039-P1-K1-C10	Score	137
Exons	544..609, 843..891		
GI Descrip.	'4836868/gb AAD30571.1 AC007260_2 5.0e-22 (AC007260) lcl_prt_seq No definition line found [Arabidopsis thaliana]'		

Seq. No.	38280	Seq. ID	OJ990409_09.0204.C8
Gene No.	78751	Strand	-
Start	37	End	2578
Name	OJ990409_09.0204.C8.o1.gs	Method	GENSCAN
Start	37	End	2578
GI	none	Score	.63
Exons	37..161, 252..307, 1448..1593, 1752..1774, 1792..1930, 2452..2578		

Seq. No.	38280	Seq. ID	OJ990409_09.0204.C8
Gene No.	78751	Strand	-
Start	37	End	2578
Name	OJ990409_09.0204.C8.o1.tm	Method	TBLASTX:Maize
Start	38	End	1592
GI	none	Score	156
Exons	38..163, 39..164, 251..307, 252..305, 1442..1489, 1446..1487, 1566..1592		

Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o1.np	Method	AAT/NAP
Start	1	End	2367
GI	3834308	Score	191
Exons	1..30, 660..1020, 2210..2367		
GI Descrip.	(AC005679) Strong similarity to glycoprotein EP1 gb L16983 Daucus carota and a member of S locus glycoprotein family PF 00954. EST gb AA720110 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o2.np	Method	AAT/NAP
Start	570	End	2367
GI	2864613	Score	535
Exons	570..1435, 1584..2367		
GI Descrip.	(AL021811) S-receptor kinase-like protein [Arabidopsis thaliana] gi 4049333 emb CAA22558.1  (AL034567) S-receptor kinase-like protein [Arabidopsis thaliana]		

Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o2.ts	Method	TBLASTX:Soybean
Start	656	End	1334

GI	none	Score	208
Exons	656..892, 657..902, 1104..1232, 1281..1334		
Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o1.tc	Method	TBLASTX:Cress
Start	693	End	2310
GI	none	Score	48
Exons	693..770, 804..902, 806..892, 1864..1953, 1966..2145, 1968..2129, 2152..2310, 2224..2310		

Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o1.tm	Method	TBLASTX:Maize
Start	1864	End	2292
GI	none	Score	104
Exons	1864..1974, 1966..2148, 1968..2135, 2170..2292		

Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o1.ts	Method	TBLASTX:Soybean
Start	1864	End	2301
GI	none	Score	105
Exons	1864..1968, 1965..2135, 1966..2301, 2149..2301		

Seq. No.	38281	Seq. ID	OJ990409_09.0204.C10
Gene No.	78752	Strand	+
Start	1	End	2367
Name	OJ990409_09.0204.C10.o1.tw	Method	TBLASTX:Wheat
Start	2016	End	2310
GI	none	Score	264
Exons	2016..2135, 2017..2310		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78753	Strand	+
Start	1182	End	4091
Name	OJ990409_09.0204.C12.o1.np	Method	AAT/NAP
Start	1182	End	4091
GI	2864613	Score	718
Exons	1182..1306, 1613..2496, 2722..3881, 3924..4091		
GI Descrip.	(AL021811) S-receptor kinase -like protein [Arabidopsis thaliana] gi 4049333 emb CAA22558.1  (AL034567) S-receptor kinase-like protein [Arabidopsis thaliana]		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o2.np	Method	AAT/NAP
Start	1590	End	5218
GI	6503190	Score	49
Exons	1590..1625, 4205..4354, 5191..5218		
GI Descrip.	(AF200688) tyrosine kinase ZAK1 [Dictyostelium discoideum]		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
----------	-------	---------	----------------------

Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o1.tc	Method	TBLASTX:Cress
Start	1726	End	3880
GI	none	Score	110
Exons	1726..1800, 1887..1976, 1895..1975, 3044..3127, 3140..3319, 3187..3303, 3343..3579, 3344..3586, 3592..3660, 3593..3664, 3778..3870, 3782..3880		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o2.ts	Method	TBLASTX:Soybean
Start	1740	End	2420
GI	none	Score	194
Exons	1740..1985, 2259..2312, 2367..2420		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o1.ts	Method	TBLASTX:Soybean
Start	3047	End	3898
GI	none	Score	35
Exons	3047..3076, 3071..3121, 3128..3322, 3229..3291, 3343..3585, 3344..3580, 3593..3754, 3595..3729, 3767..3898		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o2.tm	Method	TBLASTX:Maize
Start	3059	End	3322
GI	none	Score	64
Exons	3059..3127, 3128..3322		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o1.tw	Method	TBLASTX:Wheat
Start	3190	End	3595
GI	none	Score	291
Exons	3190..3507, 3191..3520, 3539..3595		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o1.tm	Method	TBLASTX:Maize
Start	3382	End	3931
GI	none	Score	471
Exons	3382..3717, 3383..3751, 3387..3806, 3755..3931, 3756..3857, 3775..3867		

Seq. No.	38282	Seq. ID	OJ990409_09.0204.C12
Gene No.	78754	Strand	-
Start	1590	End	5218
Name	OJ990409_09.0204.C12.o2.gs	Method	GENSCAN
Start	5023	End	5114
GI	none	Score	.99



Exons 5023..5114

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o1.np	Method	AAT/NAP
Start	430	End	2162
GI	6466937	Score	948
Exons	430..538, 604..2162		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o1.gs	Method	GENSCAN
Start	565	End	1236
GI	none	Score	.74
Exons	565..1236		

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o2.tm	Method	TBLASTX:Maize
Start	599	End	1182
GI	none	Score	92
Exons	599..820, 601..786, 817..1182, 860..1138		

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o3.tw	Method	TBLASTX:Wheat
Start	634	End	834
GI	none	Score	125
Exons	634..834, 638..787		

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o2.tw	Method	TBLASTX:Wheat
Start	988	End	1375
GI	none	Score	57
Exons	988..1179, 989..1057, 991..1104, 1186..1374, 1217..1375		

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o1.tm	Method	TBLASTX:Maize
Start	1225	End	1860
GI	none	Score	293
Exons	1225..1860, 1244..1774		

Seq. No.	38283	Seq. ID	OJ990409_09.0204.C13
Gene No.	78755	Strand	-
Start	565	End	2162
Name	OJ990409_09.0204.C13.o4.tw	Method	TBLASTX:Wheat
Start	1376	End	1635

GI none  
Exons 1376..1510, 1381..1635

Score 57

Seq. No. 38283  
Gene No. 78755  
Start 565  
Name OJ990409\_09.0204.C13.o1.ts  
Start 1453  
GI none  
Exons 1453..1839, 1454..1807

Seq. ID OJ990409\_09.0204.C13  
Strand -  
End 2162  
Method TBLASTX:Soybean  
End 1839  
Score 176

Seq. No. 38283  
Gene No. 78755  
Start 565  
Name OJ990409\_09.0204.C13.o1.tw  
Start 1696  
GI none  
Exons 1696..2124, 1697..1882

Seq. ID OJ990409\_09.0204.C13  
Strand -  
End 2162  
Method TBLASTX:Wheat  
End 2124  
Score 91

Seq. No. 38283  
Gene No. 78755  
Start 565  
Name OJ990409\_09.0204.C13.o3.tm  
Start 1912  
GI none  
Exons 1912..2151

Seq. ID OJ990409\_09.0204.C13  
Strand -  
End 2162  
Method TBLASTX:Maize  
End 2151  
Score 211

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o1.np  
Start 1  
GI 6466937  
Exons 1..2048  
GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method AAT/NAP  
End 2048  
Score 1226

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o2.tm  
Start 4  
GI none  
Exons 4..219, 5..190, 202..423, 203..424

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method TBLASTX:Maize  
End 424  
Score 63

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o2.tw  
Start 79  
GI none  
Exons 79..216, 199..429, 254..421

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method TBLASTX:Wheat  
End 429  
Score 63

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o1.ts

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method TBLASTX:Soybean

Start 199  
GI none  
Exons 199..429, 431..544

End 544  
Score 92

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o1.gs  
Start 470  
GI none  
Exons 470..1774, 1848..2039

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method GENSCAN  
End 2039  
Score .83

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o1.tm  
Start 473  
GI none  
Exons 473..952, 476..859, 480..875

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method TBLASTX:Maize  
End 952  
Score 172

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o1.tw  
Start 527  
GI none  
Exons 527..1009, 531..905

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method TBLASTX:Wheat  
End 1009  
Score 183

Seq. No. 38284  
Gene No. 78756  
Start 1  
Name OJ990409\_09.0204.C14.o2.ts  
Start 656  
GI none  
Exons 656..847, 659..973

Seq. ID OJ990409\_09.0204.C14  
Strand -  
End 2048  
Method TBLASTX:Soybean  
End 973  
Score 57

Seq. No. 38285  
Gene No. 78757  
Start 378  
Name OJ990409\_09.0204.C15.o1.gs  
Start 378  
GI none  
Exons 378..384, 430..734

Seq. ID OJ990409\_09.0204.C15  
Strand +  
End 734  
Method GENSCAN  
End 734  
Score .51

Seq. No. 38286  
Gene No. 78758  
Start 1  
Name OJ990409\_09.0204.C16.o1.np  
Start 1  
GI 2443320  
Exons 1..365  
GI Descrip. (D85597) polyprotein [Oryza australiensis]

Seq. ID OJ990409\_09.0204.C16  
Strand -  
End 365  
Method AAT/NAP  
End 365  
Score 393

Seq. No. 38286  
Gene No. 78759  
Start 1407  
Name OJ990409\_09.0204.C16.o1.gs

Seq. ID OJ990409\_09.0204.C16  
Strand -  
End 3347  
Method GENSCAN

Start	1407	End	3347
GI	none	Score	.61
Exons	1407..1546, 2823..2845, 3023..3207, 3246..3347		

Seq. No.	38287	Seq. ID	OJ990409_09.0204.C18
Gene No.	78760	Strand	-
Start	871	End	3506
Name	OJ990409_09.0204.C18.o1.np	Method	AAT/NAP
Start	871	End	3506
GI	6539570	Score	242
Exons	871..901, 2088..2199, 3087..3153, 3313..3506		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	38287	Seq. ID	OJ990409_09.0204.C18
Gene No.	78761	Strand	
Start	9765	End	9949
Name	OJ990409_09.0204.C18.o1.tm	Method	TBLASTX:Maize
Start	9765	End	9949
GI	none	Score	236
Exons	9765..9929, 9798..9935, 9803..9949		

Seq. No.	38288	Seq. ID	OJ990409_09.0204.C19
Gene No.	78762	Strand	+
Start	1056	End	2986
Name	OJ990409_09.0204.C19.o1.np	Method	AAT/NAP
Start	1056	End	2986
GI	6063554	Score	42
Exons	1056..1091, 2414..2625, 2765..2986		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38288	Seq. ID	OJ990409_09.0204.C19
Gene No.	78763	Strand	+
Start	4415	End	5750
Name	OJ990409_09.0204.C19.o2.gs	Method	GENSCAN
Start	4415	End	5750
GI	none	Score	.86
Exons	4415..4496, 5276..5442, 5559..5750		

Seq. No.	38288	Seq. ID	OJ990409_09.0204.C19
Gene No.	78764	Strand	-
Start	2495	End	3061
Name	OJ990409_09.0204.C19.o1.gs	Method	GENSCAN
Start	2495	End	3061
GI	none	Score	1
Exons	2495..3061		

Seq. No.	38288	Seq. ID	OJ990409_09.0204.C19
Gene No.	78765	Strand	-
Start	3560	End	3866
Name	OJ990409_09.0204.C19.o1.gp	Method	AAT/GAP
Start	3560	End	3866
GI	61605_3.R1084	Score	397
Exons	3560..3866		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	38288	Seq. ID	OJ990409_09.0204.C19
Gene No.	78766	Strand	-
Start	4228	End	5772
Name	OJ990409_09.0204.C19.o2.np	Method	AAT/NAP
Start	4228	End	5772
GI	6063554	Score	166
Exons	4228..4402, 5550..5772		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78767	Strand	+
Start	1169	End	11472
Name	OJ990409_09.0204.C20.o1.gs	Method	GENSCAN
Start	1169	End	6796
GI	none	Score	.61
Exons	1169..1177, 1534..1588, 2170..2198, 2750..2896, 3070..3465, 3992..4167, 4192..4916, 5144..5368, 5550..6239, 6372..6796		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78767	Strand	+
Start	1169	End	11472
Name	OJ990409_09.0204.C20.o1.gp	Method	AAT/GAP
Start	1949	End	2122
GI	LIB3433-026-P1-K1-C1	Score	302
Exons	1949..2122		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78767	Strand	+
Start	1169	End	11472
Name	OJ990409_09.0204.C20.o1.np	Method	AAT/NAP
Start	3245	End	11469
GI	4680179	Score	5311
Exons	3245..3372, 3851..4831, 4859..6904, 10125..11469		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78767	Strand	+
Start	1169	End	11472
Name	OJ990409_09.0204.C20.o3.gs	Method	GENSCAN
Start	10012	End	11472
GI	none	Score	.51
Exons	10012..11134, 11237..11472		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78768	Strand	+
Start	11797	End	13065
Name	OJ990409_09.0204.C20.o4.gs	Method	GENSCAN
Start	11797	End	12622
GI	none	Score	.62
Exons	11797..11860, 12266..12473, 12505..12622		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
----------	-------	---------	----------------------

Gene No.	78768	Strand	+
Start	11797	End	13065
Name	OJ990409_09.0204.C20.o2.np	Method	AAT/NAP
Start	12170	End	13065
GI	5852178	Score	350
Exons	12170..12473, 12505..12609, 12973..13065		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78769	Strand	-
Start	7068	End	8363
Name	OJ990409_09.0204.C20.o2.gs	Method	GENSCAN
Start	7068	End	8363
GI	none	Score	.59
Exons	7068..7114, 7774..7908, 8010..8239, 8266..8363		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78770	Strand	-
Start	9863	End	11476
Name	OJ990409_09.0204.C20.o9.tw	Method	TBLASTX:Wheat
Start	3982	End	4180
GI	none	Score	192
Exons	3982..4179, 3983..4180, 4007..4180		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78770	Strand	-
Start	9863	End	11476
Name	OJ990409_09.0204.C20.o6.tm	Method	TBLASTX:Maize
Start	4232	End	4537
GI	none	Score	240
Exons	4232..4537		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78770	Strand	-
Start	9863	End	11476
Name	OJ990409_09.0204.C20.o7.tw	Method	TBLASTX:Wheat
Start	4232	End	4582
GI	none	Score	288
Exons	4232..4582, 4322..4426		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78770	Strand	-
Start	9863	End	11476
Name	OJ990409_09.0204.C20.o8.tw	Method	TBLASTX:Wheat
Start	4864	End	5238
GI	none	Score	127
Exons	4864..5031, 4865..5032, 5050..5238, 5124..5237		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
Gene No.	78770	Strand	-
Start	9863	End	11476
Name	OJ990409_09.0204.C20.o3.tw	Method	TBLASTX:Wheat
Start	5401	End	5887
GI	none	Score	64
Exons	5401..5472, 5470..5802, 5477..5887, 5485..5844, 5516..5884		

Seq. No.	38289	Seq. ID	OJ990409_09.0204.C20
----------	-------	---------	----------------------

This Page is inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLORED OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☒ REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images  
problems checked, please do not report the  
problems to the IFW Image Problem Mailbox**